

Db 2281 CTGCTGGCAAGGCGCATCTGGGTCAAGGCTGGGGCACAACAAAGAGAGGTACCGAG 2340
 Qy 2341 CGCTGATCTCTGCAAGAGGTGATCGGTGTCATCAACCAAGACCTGTGAGACTCA 2400
 Db 2341 CGCTGATCTCTGCAAGAGGTGATCGGTGTCATCAACCAAGACCTGTGAGACTCA 2400
 Qy 2401 TGCCGACACATCAACCCAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2460
 Db 2401 TGCCGACACATCAACCCAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2460
 Qy 2461 CTGTCAGAGGTGATCTGT 2520
 Db 2461 CTGTCAGAGGTGATCTGT 2520
 Qy 2521 AGGCTGT 2580
 Db 2521 AGGCTGT 2580
 Qy 2581 CAAAGCTCCCTGT 2640
 Db 2581 CAAAGCTCCCTGT 2640
 Qy 2641 AGACAGCCGACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 2700
 Db 2641 AGACAGCCGACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 2700
 Qy 2701 GAACACTGACGACATTTATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2760
 Db 2701 GAACACTGACGACATTTATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2760
 Qy 2761 GCATCTTGT 2820
 Db 2761 GCATCTTGT 2820
 Qy 2821 TTGCGT 2880
 Db 2821 TTGCGT 2880
 Qy 2881 CTGAGCTGT 2940
 Db 2881 CTGAGCTGT 2940
 Qy 2941 GGGAGCCCTGT 3000
 Db 2941 GGGAGCCCTGT 3000
 Qy 3001 ACCCCAGAAAAAGT 3060
 Db 3001 ACCCCAGAAAAAGT 3060
 Qy 3061 TTGAGAGTAAACATTTATTTTAAAAA 3106
 Db 3061 TTGAGAGTAAACATTTATTTTAAAAA 3106

RESULT 2
 US-10-342-887-157

; Sequence 157, Application US/10342887
 ; Publication No. US20040058340A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dai, Hongyue
 ; APPLICANT: He, Yundong
 ; APPLICANT: Linsley, Peter S.
 ; APPLICANT: Mao, Mao
 ; APPLICANT: Roberts, Christopher J.
 ; APPLICANT: Van 't Veer, Laura Johanna
 ; APPLICANT: Bernards, Rene
 ; APPLICANT: Marc J.
 ; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
 ; FILE REFERENCE: 9301-188-999
 ; CURRENT APPLICATION NUMBER: US/10/342,887
 ; CURRENT FILING DATE: 2003-01-15

; PRIOR APPLICATION NUMBER: 60/298,918
 ; PRIOR FILING DATE: 2001-06-18
 ; PRIOR APPLICATION NUMBER: 60/380,710
 ; PRIOR FILING DATE: 2002-05-14
 ; PRIOR APPLICATION NUMBER: 10/172,118
 ; PRIOR FILING DATE: 2002-06-14
 ; NUMBER OF SEQ ID NOS: 2699
 ; SEQ ID NO 157
 ; LENGTH: 3149
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-342-887-157

Query Match 60.8%; Score 1889.8; DB 13; Length 3149;
 Best Local Similarity 81.4%; Pred. No. 0;
 Matches 2222; Conservative 0; Mismatches 504; Indels 5; Gaps 3;

Qy 50 GACCGCCAAACATGAGT 109
 Db 23 GACCGCCAAACATGAGT 82
 Qy 110 CGGCGCGGAGCTCAAGT 169
 Db 83 CGGCGCGGAGCTCAAGT 142
 Qy 170 GAGATTCTCTGT 229
 Db 143 GAGATTCTCTGT 202
 Qy 230 GGT 289
 Db 203 GGT 262
 Qy 290 GTGGCACTTGT 349
 Db 263 GTGGCACTTGT 322
 Qy 350 CACAAATGAGATCTTGT 409
 Db 323 CACAAATGAGATCTTGT 382
 Qy 410 GGCAGCCAGGT 469
 Db 383 GGCAGCCAGGT 442
 Qy 470 CTACCAAGAAAGT 529
 Db 443 CTACCAAGAAAGT 502
 Qy 530 GTCAAGATTGAGATCTTGT 589
 Db 503 GTCAAGATTGAGATCTTGT 562
 Qy 590 GCGAGTTGT 649
 Db 563 GCGAGTTGT 622
 Qy 650 GGT 709
 Db 623 GGT 682
 Qy 710 TGCCGT 769
 Db 683 TGCCGT 742
 Qy 770 TCCTTACCGGCGGATGT 829
 Db 743 TCCTTACCGGCGGATGT 802
 Qy 830 GAGCTTACCTTGT 889
 Db 803 GAGCTTACCTTGT 862


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? PRIOR APPLICATION NUMBER: 60/380,770
? PRIOR FILING DATE: 2002-05-14
? NUMBER OF SEQ ID NOS: 2699
? SEQ ID NO 157
? LENGTH: 3149
? TYPE: DNA
? ORGANISM: Homo sapiens
? PUBLICATION INFORMATION:
? DATABASE ACCESSION NUMBER: AF118824
? DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-157

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Query Match	60.8%;	Score 1889.8;	DB 13;	Length 3145;
Best Local Similarity	81.4%;	Pred. No. 0;		
Matches 222;	Conservative 0;	Mismatches 504;	Indels 5;	Gaps 3

QY	50	GACCGCAAACCAATGGGTAGCAATCGGGGCCGCAAGGCGCGGAGGGGGCTTCACGACTT	10
Db	23	GGCTTCGGGGACCAATGGGGAGCGAATCGGGCCCGCAAGGGCGGAGGGGGCCGAAAGACTT	82
QY	110	CGGGCGGGGACTCAAGTACAACTCCCGGCTAGAGAACTGAAATGGCTTTGAGAGAGGT	16
Db	83	CGGGCGGGGACTCAAGTACAACTCCCGGCAAGAGAAAGTAAATGGCTTTGAGAGAGGCT	14
QY	170	GGAAATTCCTGCTCGCGAACAATGCCAAGAAATGAGAAAGCGAGGCCCGCGCTGGGT	22
Db	143	GGAAATTCCTGCGCACTCAACAACGTCAGAAAGATGAAAGATGGCCCGGGGCGCTGGGT	20
QY	230	GGTGTGATGGCACTGTGTTCACTTCCTTCCTTCCTCCCTCATAGCTGGCTTGTGT	28
Db	203	GGTGTGCGAGCCGTGCTGATGGCCCTCTCTTGTGTCTTGAGGATCGGCTTCGTGT	26
QY	290	GTTGGCACTTCCATTATCGGAATGCGGGTTCAAAAAGTCTTCATGAGCCATCGAGAT	34
Db	263	GTTGGCAATTCAGAACCGGAGCGGCGGTCTCAAGAGGTCTTCATGCTTCAATGAGAT	32
QY	350	CACAATATGAAATCTTTCTGATGGGTATGGAATCCACCTCCACAGATTATCAGCTT	40
Db	323	CACAATATGAAATTTTGTGATGCTTACGAAATCTCCACCTCAGTTTGTAAAGCTT	38
QY	410	GGCGAGCCAGGTGAAGAGGCGCTGAAGCTGCTTCAATGAATGCTCCGTGCTCGGGTCC	46
Db	383	GGCGACAGAGGTGAAGGACCGCGTGAAGCTGTCTAAGGGAGTCCCATTTCTGGGGCC	44
QY	470	CTAACCAAGAAATTCGGCTTACTGCTCTTCACTGAGGCAAGTGCATCGCTACTACTG	52
Db	443	CTAACCAAGAAATTCGGCTGTGTGACGGCTTCAAGGAGGCGAGCTCATCGCTACTACTG	50
QY	530	GTCAGATTCAGATCCCCCAACCTGGCAGAAAGGTTGATCGCGCCATGCTGTGGA	58
Db	503	GTCAGATTCAGATCCCCCGAGACCTGTGGAGAGAGCCGAGCGCTCATGGCCAGAGA	56
QY	590	GGGAGTTTGAACATTGCGACCCCGAGACCGGCACTGAATTCCTTGTGCTTAATCTGT	64
Db	563	GGGAGTTTGAATGCTGCCCGCGGGCGGCTCCCTGAAGTCTTTGTGTCACTCAGT	62
QY	650	GGTGGCTTCCCCATTTGACCCCAAGATGCTGCAGAGAGACTCAGAGCAACAGCTGCACTT	70
Db	623	GGTGGCTTCCCCCGAGACTCCAAAACAGTACAGAGAACTCCAGAGCAACAGCTGCACTT	68
QY	710	TGCGCTGATGCCATGTGTGACAGAGTGAACGCTTCACTACCTGTGGTCCCAACAG	76
Db	683	TGCGCTGACCGCCCGGTGTGAAGCTGAATGGCTTCAACAGCCCGGCTTCCCTGACAG	74
QY	770	TCCCTACCCGGGCAATGCCGCTGCACAGTGGGTCTTCGGGGGGAGCGCGACTTGTGCT	82
Db	743	CCCTTACCCCGCTATGCCGCTGCACAGTGGGCTCTTCGGGGGGAGCGCGACTGTGCT	80
QY	830	GAGCTCACTTCGAGACTTTGATGTGCTCTCTGTATGAGCATGGCAGTGAACCTGGT	88
Db	803	GAGCTCACTTCGAGACTTTGACTTGTGCTGTGTCAGAGCGCGGAGCAGCACTGGT	86
QY	890	CACGGTATATGATGACTGTGAGCGCCATGGAACCCACGCTGTGTGTCGGCTGTGTGCAAC	94

Db	863	GACGGGTGTCACACACCCCTGAGCCCATGAGGCCCAACGCCCTGCTGACATTTGTGTGGCAC	922
QY	950	CTTCTCACCCCTCTTCAACACCTGACTTTCTCTCTCTCCAGAAAGCTCTTCTGTGACGCT	1009
Db	923	CTACCCCTCCCTCTTCAACCTTGACCTTCCACTCTCTCCAGAAAGCTCTGCTCATCACT	982
QY	1010	GATTAACCAATATGACCCGGCGACATCTGGCTTTGAGGCCACTTTCTTCAGCTGCCAA	1069
Db	983	GATTAACCAACATGAGCCGGCGGCATCCCGGCTTTGAGGCCACTTCTTCCAGCTGCCAA	1042
QY	1070	GATGAGCAGCTGTGGCGGCTTTTGTAGTGCACACCCAAAGGACATTTAGCAGCCCTTACTA	1129
Db	1043	GATGAGCAGCTGTGGAGGCGGCTTTACGTAAAGCCCAAGGGGACATTTCAACAGCCCTTACTA	1102
QY	1130	TCCAGGCCACTACCCGCCCAACATCAATGACATGAGATATCAAGTGGCCCAACAAACCG	1189
Db	1103	CCCAGGCCACTACCCACCAACATGTGACCTGCACATGGAACATTTAGAGTGGCCCAACAA	1162
QY	1190	GACGTGAAGGTGGCGCTTCAAACTTTCTATCTGTGTGAACCCCAACGTACAGTGGGCTTC	1249
Db	1163	GCAATGTGAAGGTGGCGCTTCAAAATTTCTTACTCTGTGAGCCCGGGGTGCTCGGGGCAC	1222
QY	1250	CTGACCAAGGACATATGTGAGATGCAAGGGGAGAAAGTACTGGCGGTGAGAGTCCCAATT	1309
Db	1223	CTGCGCCCAAGGACTACGTGAGATGCAATGGGAGAAATATCGGAGAAAGGTCCCAAGTT	1282
QY	1310	TGTGTGAGCAGCAACAGCAGCAAGATTAACAGTCCACTTCCATTGATCACTCGTACAC	1369
Db	1283	CGTGTGACAGCAACAGCAACAGATTAACAGTTCCTTCACTAGATCACTCTTACAC	1342
QY	1370	GGACACCGGGTTCCTAGCTGATGACTTCTCTGACATCCAAACGACCCGTGCCAGGAGAT	1429
Db	1343	CGACACCGGGTTCCTAGCTGATGACTTCTCTGACATCCAAACGACATGACATGCCCCGGGGA	1402
QY	1430	GTTTCATGTGCAAGCTGAGCGGTGCATCCGAAAGAACTGGCGTGCAGCGCTTGGGACAG	1489
Db	1403	GTTTCATGTGCGGACCGGGCGGTGTATCCGGAAGAGCTGGCGTGTGATGGCGGACGGA	1462
QY	1490	CTGCGCGGATTAATAGTATGATGAGGCTTACTGCCGATGCAATGCCACCCAGCTTCAACGG	1549
Db	1463	CTGCACCGAACCAAGCGATGAGCTCAACTGCAGTGTGGGACCGCGGACCAAGTTCACTGT	1522
QY	1550	CAAAAACCAAGTTCGCAAGCCCTCTTTCTGGGCTGTGACAGTGTCAACGCACTGGGGA	1609
Db	1523	CAGAAACAAGTTTCTGCAAGCCCTCTTCTGGGCTGTGACAGTGTGAAACGACTGGGGA	1582
QY	1610	CGGAATGACGAGAGAGGCTGCAAGCTGTCTGCTGGGAGTTTCAAGTGTTCAAATGGGA	1669
Db	1583	CAACACCGACGAGCAAGGAGGCTGCAAGTGTTCGGGCCAACAACCTTCAGGTGTCCAAATGGGA	1642
QY	1670	GTTCTCCCTCAGAGCCAGAAAGTGTATGAGGAAGAACACATGAGGAAATGGGCTGTACGA	1729
Db	1643	GTTCTCCCTCAGAAAGCCAGCAGTGCATATGGAAGAACGACTGTGGGAGCGAGTCCGAGA	1702
QY	1730	GCGCTTCATGTGACAGCGTAATGTGCTCTTTCACCAAAATATACCTACCGTGCACAAA	1789
Db	1703	GCGCTTCCTCCGCCCAAGGTGAACGTGTGTCACTTTACCAAAACACACTACCGCTGTCTCA	1762
QY	1790	TGGCGCTCTGTGAGTGAAGGCGCAACCTTGAATGTGATGGAAGACGAGCTGTAGCGATGG	1849
Db	1763	TGGCGCTCTGTGAGTGAAGGCGCAACCTTGAATGTGATGGAAGACGAGCTGTAGCGAGG	1822
QY	1850	CTCCGATGAGAAAACCTGTGACGTGTGGGCTGGGACCTCTTTACCAACAGGCTGCGGTGT	1909
Db	1823	CTCAATATGAGAAAGACTGCGACTGTGGGCTGGGAGTATTCACAGACAGGCTGTGTGTGT	1882
QY	1910	TGTGTGACGAATGCGGACAGAGGCGAGTGTGCGCTTGCAGGTGAGGCTTCAACGCCCTGGG	1969
Db	1883	TGGGGGACCGGATGCGGATGAGAGGGGAGTGGCCCTGTGCAGGTAAAGCTGACTGTGGG	1942
QY	1970	CGAGGGACACTTGTGTGGGGCTCGCTCATCTCTCTGACTGGCTGTCTTGCAGCTCA	2029

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Db      1943  CAGAGCCACATCTGGGCTTCCCTCATCTCTCCCAATGGTGGTCTCTGCGGACACA 2002
QY      2030  TTGCTTTAGATGACAAAATTTCAGTACTCAGACTACAGATGTGAGCGGCTTCT 2089
Db      2003  CTGCTACATGATGACAGAGATTCAGTACTCAGAGCCCGAGTGTGACGCTTCT 2062
QY      2090  GGGTCTGTGAGACCAAGGAGCGGCTCTGTGGGTGACAGAGCTGAAGCTCAAG 2149
Db      2063  GGGCTTGACAGACCAAGCGGCGGCGCTGTGGGTGACAGAGCTGAAGCTCAAG 2122
QY      2150  TATCATCCACCACTCTCTTCAATGATTTACCTTGACATGATGACATGCTTGTGGA 2209
Db      2123  CATCATCTCCACCTCTTCTTCAATGATTTACCTTGACATGATGACATGCTTGTGGA 2182
QY      2210  GCTGAGAAAGTGGTGTGAGTACGACCGTCTGCGGCTTGTGCTGCTGCTGCTG 2269
Db      2183  GCTGAGAAAGTGGTGTGAGTACGACCGTCTGCGGCTTGTGCTGCTGCTGCTG 2242
QY      2270  CCACTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2329
Db      2243  CCACTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2302
QY      2330  AGGTACCGAGCGCTGATCTCTGAGAGAGGTGAGATCCGTGATCAACCAAGCCTG 2389
Db      2303  AGGCATCTGGGCGCTGATCTCTGAGAGAGGTGAGATCCGTGATCAACCAAGCCTG 2362
QY      2390  TGAAGACCTATGCGCGGACGATCACTCCCAAGATATGTGTGGTCTTCTCAGTGG 2449
Db      2363  CGAGAACCTCTGCGCGGACGATCACTCCCAAGATATGTGTGGTCTTCTCAGTGG 2422
QY      2450  GGGTGTGAGCTCTGCGGAGGAGTCTGCTGCGGCTTGTGCAAGCGCGAGAGATGG 2509
Db      2423  CGGGTGTGAGCTCTGCGGAGGAGTCTGCTGCGGCTTGTGCAAGCGCGAGATGG 2482
QY      2510  GCGAATGCTTCAGGCTGTGTGTGAGCTGTGGGTGAAAGCTGTGCTCAAGAGAA 2569
Db      2483  GCGAATGCTTCAGGCTGTGTGTGAGCTGTGGGTGAAAGCTGTGCTCAAGAGAA 2542
QY      2570  AGGGGTGTGACCAAGGCTCTGTGTGTGAGCTGTGGGTGAAAGCTGTGCTCAAG 2629
Db      2543  AGGGGTGTGACCAAGGCTCTGTGTGTGAGCTGTGGGTGAAAGCTGTGCTCAAG 2602
QY      2630  GCAGATGTGACCAAGGCTCTGTGTGTGAGCTGTGGGTGAAAGCTGTGCTCAAG 2689
Db      2603  GGGGCGGGG---GCCATCCAAATGTGTGTGTGAGCTGTGGGTGAAAGCTGTGCT 2659
QY      2690  ATACAGAGAGAACTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2749
Db      2660  GTGACAG-CTGTGAGGCTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2717
QY      2750  GACTGTGAACTGTGATCTTTAGACTCAAGT 2780
Db      2718  CACTGTGAATCAATCTCCAGGCTTCAAAAT 2748

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RESULT 4
US-10-295-027-968
; Sequence 968, Application US/10295027
; Publication No. US200302350A1
GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevizi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US

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; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 968
; LENGTH: 3149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-968

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Query Match      60.8%; Score 1889.8; DB 16; Length 3149;
Best Local Similarity 81.4%; Pred. No. 0; Mismatches 504; Indels 5; Gaps 3;
Matches 2222; Conservative

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QY      50  GACCGCAAAACCTGGGTAGCAATCGGGCGGAGGCGGAGGCGGCTCTCAGACTT 109
Db      23  GGCTCGGGGACATGGGAGACCATCGGCGGAGGCGGAGGCGGAGGCGGAGGACTT 82
QY      110  CGGCGCGGACTCAAGTACAACTCCCGCTAGAGAACTGATGCTTTGAGGAGGCT 169
Db      83  CGGCGCGGACTCAAGTACAACTCCCGCTAGAGAACTGATGCTTTGAGGAGGCT 142
QY      170  GGAATCTCTGCTCTGCAACATGCGCAAGAGTGAAGAGGAGGCGGCGCTGAGT 229
Db      143  GGAATCTCTGCTCTGCAACATGCGCAAGAGTGAAGAGGAGGCGGCGCTGAGT 202
QY      230  GGTGTGTGTGAGGCTGTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 289
Db      203  GGTGTGTGTGAGGCTGTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 262
QY      290  GTGGCACTTCATATCGAAATGTGCGGCTTCAAAAGTCTTCAATGCGCATCTGAGAT 349
Db      263  GTGGCACTTCATATCGAAATGTGCGGCTTCAAAAGTCTTCAATGCGCATCTGAGAT 322
QY      350  CACAAATGATCTTTTGTGATGCTGATGAGTCACTCCAGAGATTTATGAGCT 409
Db      323  CACAAATGATCTTTTGTGATGCTGATGAGTCACTCCAGAGATTTATGAGCT 382
QY      410  GGGCAGCGAGTGAAGAGGCGCTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 469
Db      383  GGGCAGCGAGTGAAGAGGCGCTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 442
QY      470  CTACCAAGAAAGTGGCTGTGATCTGCTCTTCAATGAGGAGGAGTGTGCTGACTG 529
Db      443  CTACCAAGAAAGTGGCTGTGATCTGCTCTTCAATGAGGAGGAGTGTGCTGACTG 502
QY      530  GTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 589
Db      503  GTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 562
QY      590  GCGAGTGTGATGATGCACTCCCGAGACGAGGCTGAAATCTTGTGTGATCAATCTGT 649

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Dh 563 GCGCGTAGTCATGCTGCCCCCGGGCGCGCTCCCTGAAGTCCTTTGTCACCTCACT 622
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Db 623 GGTGGCTTTCCCAAGGACTCCAAACAGTACAGAGAGCCCAAGAGCAACAGCTGAGCTT 682
Qy 710 TGCCCTGCAATCCCATGCTGAGAGAGTGAACAGCTTCACTAACCCCTGGCTTCCCAACG 769
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Qy 770 TCCCTTACCCGGCGATGCGCTGCGCAATGGAGTCTTGCGGGGGAGCCCACTCTGCT 829
Db 743 CCCCCTACCCCGCTCATGCGCGCTGCAATGGAGCCCTTGCGGGGAGCCCACTCACTGCT 802
Qy 830 GAGCCTACCTCCGAGCTTTGATGTCGCTCCCTGATGAGCATGAGCACTGCT 889
Db 803 GAGCCTACCTTCCGAGCTTTGACCTTGCGCTCTGAGAGAGCGCGGCAAGCTGCT 862
Qy 890 CACCGTATGATGAGCTGAGAGCCCATGAGAACCCCAAGCTGGTGGGGCTGTGTGGAC 949
Db 863 GAGCGTATACACACCTTGAGCCCATGAGAGCCCAAGCTGGTGGGGCTGTGTGGAC 922
Qy 950 CTTCCTACCTCTCAACCTGACTTCTCTCTCCCAAGACGTCTTCTTGTCAAGCT 1009
Db 923 CTACCTCTCTCTCAACCTGAGCTTCACTCTCTCCCAAGAGCTCTGCTCACTCACT 982
Qy 1010 GATAACCAATACAGACCGGAGACATCTGCTTTGAGGCACTTTTCCAGTGGCCCA 1069
Db 983 GATACCAACATAGAGCGGGGAGCATCCCGCTTTGAGGCACTTTTCCAGTGGCTAG 1042
Qy 1070 GATGACAGCTGAGCGGCTTTTGAAGTGAACCCCAAGGAGCTTTAGAGCCCTTACTA 1129
Db 1043 GATGACAGCTGAGAGCGGCTTTAGTAAAGCCAGGAGACATTTAAAGCCCTTACTA 1102
Qy 1130 TCGAGGCACTACCGGCGCAATCACTGACATGAAATATCAAGSTGCCCAACAGG 1189
Db 1103 CCGAGGCACTACCGGCGCAATCACTGACATGAAATATGAGSTGCCCAACAGG 1162
Qy 1190 GAACGTAAGSTGCGCTTAACTCTTATCTGAGTGAACCCCAAGTCAAGTGGGCTC 1249
Db 1163 GATGTAAGSTGCGCTTAACTCTTATCTGAGTGAACCCCGGCTCTGCGGCGAC 1222
Qy 1250 CTGACCAAGGACTGAGAGTCAACCGGAGAGTACTGCGGAGAGTCCCACTT 1309
Db 1223 CTGCGCCCAAGGACTGAGAGTCAATGAGAGAGTCTGCGGAGAGTCCCACTT 1282
Qy 1310 TGTGTGAGAGCAACAGCAGCAAGATTAAGTCCACTTCTGATCACTCGTCAAC 1369
Db 1283 GGTGTGAGAGCAACAGCAGCAAGATTAAGTCCACTTCTGATCACTCGTCAAC 1342
Qy 1370 GGAACCGGAGTCTGAGTGAAGTCACTCTTCAAGCACTTCAAGCCGTCAGAGGAT 1429
Db 1343 GGAACCGGAGTCTGAGTGAAGTCACTCTTCAAGCACTTCAAGCCGTCAGAGGAT 1402
Qy 1430 GTTCATGTAAGTGAAGTGAAGTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1489
Db 1403 GTTCATGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1462
Qy 1490 CTGCGCGGATTAATGATGAGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1549
Db 1463 CTGCGCGGATTAATGATGAGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1522
Qy 1550 CAATAACAGTCTGAGAGCCCTCTTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1609
Db 1523 CAATAACAGTCTGAGAGCCCTCTTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1582
Qy 1610 CGAAGTGAAGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1669
Db 1583 CAACAGAGAGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1642
Qy 1670 GTGTCTCTCTGAGAGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1729
Db 1643 GTGTCTCTCTGAGAGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1702

Qy 1730 GACTCATGTAAGAGCGGTAATGTGTCTCTTGCACCAATATATCTACCGCTGCCAAA 1789
Db 1703 GACTCTCTCTCCCAAGGTGAAGTGTGTCTCTTGTACCAAAACACCTACCGCTGCCAAA 1762
Qy 1790 TGCCCTGCTGTGAGCAAGGAGCAACCTGAGTGTGATGGGAGAGAGCACTGTACGATGG 1849
Db 1763 TGCCCTGCTGTGAGCAAGGAGCAACCTGAGTGTGATGGGAGAGAGCACTGTACGATGG 1822
Qy 1850 CTCCGATGAGAAAACTGTGATCTGTGGGCTTGCACTCTTATCAAAAGCTGCGTGGT 1909
Db 1823 CTGAGTGAAGAGAGTGCACATGTGGGCTGGCGGTCTTATCAAGAGAGAGTCTGTGGT 1882
Qy 1910 TGCTGAGCAAGTAATGGGAGCAAGAGGAGAGTGGCCCTGGAGAGTGAAGCTCAAGCCCTGGG 1969
Db 1883 TGCGGAGCAAGTAATGGGAGCAAGAGGAGAGTGGCCCTGGAGAGTGAAGCTGTGGG 1942
Qy 1970 CCAAGGCACTGTGTGAGGAGCTGCTCATCTCTCTGAGTGAAGTGTGTGTGAGTGA 2029
Db 1943 CCAAGGCACTGTGTGAGGAGCTGCTCATCTCTCTGAGTGAAGTGTGTGTGAGTGA 2002
Qy 2030 TTGCTTTCAAGATGACAAAAATTTCAAGTACTGAGTCAAGATGAGAGTGAAGTGAAGTGA 2089
Db 2003 CTGCTACATGATGAGAGAGATTCAGTACTCAGAACCCAGCAAGTGAAGTGAAGTGAAGTGA 2062
Qy 2090 GGGTCTGTGAGACCAAGAGAGGAGTGTCTGTGGGAGTGAAGTGAAGTGAAGTGAAGTGA 2149
Db 2063 GGGTCTGTGAGACCAAGAGAGGAGTGTCTGTGGGAGTGAAGTGAAGTGAAGTGAAGTGA 2122
Qy 2150 TATCATCAACCAACCTTCTCTTCAATGATTTCACTTGAATGAGTGAAGTGAAGTGAAGTGA 2209
Db 2123 CATCATCTCCACCCCTTCTTCAATGATTTCACTTGAATGAGTGAAGTGAAGTGAAGTGAAGTGA 2182
Qy 2210 GCTGAGAAAGTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2269
Db 2183 GCTGAGAAAGTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2242
Qy 2270 CCATGCTTCTCTGAGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2329
Db 2243 CCATGCTTCTCTGAGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2302
Qy 2330 AGTACCGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2389
Db 2303 AGTACCGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2362
Qy 2390 TGAAGACTCATGCTGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2449
Db 2363 TGAAGACTCATGCTGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2422
Qy 2450 GGGTGTGAGTCTCTGAGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2509
Db 2423 GGGTGTGAGTCTCTGAGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2482
Qy 2510 GCGAATGTTCCAGGCTGTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2569
Db 2483 GCGAATGTTCCAGGCTGTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2542
Qy 2570 AGGCGTGTACCAAGGCTCTGTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2629
Db 2543 AGGCGTGTACCAAGGCTCTGTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2602
Qy 2630 GCACATGAGACAGAGCGGAGCAACAACCCCAAGAGAGTGGCCGAGATGACACACTGG 2689
Db 2603 GGGGCGGGG---GCCACCCAAATGTGTACCTGCGGGGAGCAACCAATGTGTACCCAGT 2659
Qy 2690 ATACAGAGAGAGAACACTGACGACATTTATGCTGTGGCTTCCCGCCCAACCAACCA 2749
Db 2660 GTGACAG-CTGAGAGGCTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2717
Qy 2750 GACTGTGAATGTGATCTTTGAGATCAGAGT 2780
Db 2718 CACTGTGAATCAATCTCCAGGGCTCCAAAT 2748

RESULT 5

US-09-776-191-1

Sequence 1, Application US/09776191
Publication No. US20030119168A1

GENERAL INFORMATION:

APPLICANT: Edwin L. Madison
APPLICANT: Edgar O. Ong
APPLICANT: Jiumn-Chern Yeh
APPLICANT: Corvas International, Inc.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND TITLE OF INVENTION: METHODS BASED THEREON
FILE REFERENCE: 24745-1607
CURRENT APPLICATION NUMBER: US/09/776,191
CURRENT FILING DATE: 2001-02-02
PRIORITY APPLICATION NUMBER: 60/213,124
PRIORITY FILING DATE: 2000-06-22
PRIORITY APPLICATION NUMBER: 60/234,840
PRIORITY FILING DATE: 2000-06-22
PRIORITY APPLICATION NUMBER: 60/179,982
PRIORITY FILING DATE: 2000-02-03
PRIORITY APPLICATION NUMBER: 60/183,542
PRIORITY FILING DATE: 2000-02-18
PRIORITY APPLICATION NUMBER: 09/657,968
PRIORITY FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 3147

TYPE: DNA

ORGANISM: Homo Sapien

FEATURE:

OTHER INFORMATION: Nucleotide encoding MTSPI

NAME/KEY: CDS

LOCATION: (23)...(2589)

PUBLICATION INFORMATION:

AUTHORS: O'Brien, T.J. and Tanimoto, H.

DATABASE ACCESSION NUMBER: Genbank AF081724

PATENT DOCUMENT NUMBER: US Pat 5972616

PATENT FILING DATE: 1998-02-20

PUBLICATION DATE: 1999-10-26

US-09-776-191-1

Query Match 60.6%; Score 1883.2; DB 10; Length 3147;

Best Local Similarity 81.2%; Pred. No. 0;

Matches 2223; Conservative 0; Mismatches 508; Indels 5; Gaps 3;

QY 45 GATCGGACCGCCAAACCATGGGTAGCAATCGGGGCGGACGAGGGGGGCTCTCAG 104
DB 5 GAGCGGCGCTCGGGGTACCATGGGAGCGATCGGGCCCGCAAGGGGGGGCCCGAAG 64
QY 105 GACTTCGGGCGGAGCTCAAGTACACTCCCGCTAGAGAACATGATGCTTTGAGAG 164
DB 65 GACTTCGGGCGGAGCTCAAGTACACTCCCGCAAGAGTGAATGCTTTGAGAGAA 124
QY 165 GGTGTGAGAGTCTCTGCTCGGCAACAAATGCCAAGAAAGTGGAGAGAGAGAGAG 224
DB 125 GCGGTGAGAGTCTCTGCTCGGCAACAAATGCCAAGAAAGTGGAGAGAGAGAG 184
QY 225 TGGGTGAGAGTCTCTGCTCGGCAACAAATGCCAAGAAAGTGGAGAGAGAGAG 284
DB 185 TGGGTGAGAGTCTCTGCTCGGCAACAAATGCCAAGAAAGTGGAGAGAGAGAG 244
QY 285 TGGGTGAGAGTCTCTGCTCGGCAACAAATGCCAAGAAAGTGGAGAGAGAGAG 344
DB 245 TGGGTGAGAGTCTCTGCTCGGCAACAAATGCCAAGAAAGTGGAGAGAGAGAG 304
QY 345 AGGATCAACAATGAGATCTTTCTGATGCGTATGAGAACTCCACCTCCACAGAGTTATC 404
DB 305 AGGATCAACAATGAGATCTTTCTGATGCGTATGAGAACTCCACCTCCACAGAGTTATC 364
QY 405 AGCTTGCGACGACGAGTGAAGAGAGGCGCTGAACTGCTGTAACAATGAGTCCCTGCTCTG 464

DB 365 AGCTTGCGACGACGAGTGAAGAGAGGCGCTGAACTGCTGTAACAATGAGTCCCTGCTCTG 424
QY 465 GGTCTCTCCCAACAAGAGTGGCTGTAATGCTTCAAGTGAAGGAGAGTGTATGCTTAC 524
DB 425 GGTCTCTCCCAACAAGAGTGGCTGTAATGCTTCAAGTGAAGGAGAGTGTATGCTTAC 484
QY 525 TACTGTGAGAGTGAAGATCCCGCAACCTGGCAGAGAGAGTGTATGCTTACAGTGT 584
DB 485 TACTGTGAGAGTGAAGATCCCGCAACCTGGCAGAGAGAGTGTATGCTTACAGTGT 544
QY 585 GTGAGAGAGTGTAACTTGGCAACCGGAGAGAGAGTGTATGCTTACAGTGT 644
DB 545 GAGAGAGAGTGTAACTTGGCAACCGGAGAGAGAGTGTATGCTTACAGTGT 604
QY 645 TCTGTGAGAGTGTAACTTGGCAACCGGAGAGAGAGTGTATGCTTACAGTGT 704
DB 605 TCTGTGAGAGTGTAACTTGGCAACCGGAGAGAGAGTGTATGCTTACAGTGT 664
QY 705 AGTTTGGCCCTGAGATCCCAATGCTGAGAGAGAGTGTATGCTTACAGTGT 764
DB 665 AGTTTGGCCCTGAGATCCCAATGCTGAGAGAGAGTGTATGCTTACAGTGT 724
QY 765 AACAGTCCCTAAG 824
DB 725 AACAGTCCCTAAG 784
QY 825 GTGCTGAGAGTGTAACTTGGCAACCGGAGAGAGAGTGTATGCTTACAGTGT 884
DB 785 GTGCTGAGAGTGTAACTTGGCAACCGGAGAGAGAGTGTATGCTTACAGTGT 844
QY 885 CTGTGACCGGTATGATAGTACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 944
DB 845 CTGTGACCGGTATGATAGTACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 904
QY 945 GGCACCTTCCCAACCTGCTTCAACCTGCTTCTCTCTCTCTCTCTCTCTCTCTCTCT 1004
DB 905 GGCACCTTCCCAACCTGCTTCAACCTGCTTCTCTCTCTCTCTCTCTCTCTCTCTCT 964
QY 1005 AACGCTGAAACCAATATCTGACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1064
DB 965 AACGCTGAAACCAATATCTGACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1024
QY 1065 CCAAGATGAGAGAGTGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1124
DB 1025 CCAAGATGAGAGAGTGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1084
QY 1125 TACTATCCAGGCACTTACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1184
DB 1085 TACTATCCAGGCACTTACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1144
QY 1185 AACGGAACGTAAG 1244
DB 1145 AACGGAACGTAAG 1204
QY 1245 GGTCTCTGACCAAG 1304
DB 1205 GGTCTCTGACCAAG 1264
QY 1305 GAGTTTGTGAG 1364
DB 1265 GAGTTTGTGAG 1324
QY 1365 TACAGGAG 1424
DB 1325 TACAGGAG 1384
QY 1425 GAGATTTATGATGAG 1484
DB 1385 GAGATTTATGATGAG 1444
QY 1485 GAGATTTATGATGAG 1544

Db 1445 GCCGACCTGACGACGACGATGAGTCACTGAGTGGAGCGCCGACCAAGTTTC 1504
 QY 1545 ACGTGCACAAAACAGTTCTGCAAGCCCTCTTGGGCTGTGACAGTGTCAAGCATCTG 1604
 Db 1505 ACGTGCACAAAACAGTTCTGCAAGCCCTCTTGGGCTGTGACAGTGTCAAGCATCTG 1564
 QY 1605 GGGGACGGAAGTGAAG 1664
 Db 1665 GAGACACACAG 1624
 QY 1665 GGGAGAGTGTCTCCCTCAAGAGCAGAGTGTATGGAGAGAGAGAGAGAGAGAGAG 1724
 Db 1625 GGGAGAGTGTCTCCCTCAAGAGCAGAGTGTATGGAGAGAGAGAGAGAGAGAGAG 1684
 QY 1725 GACGAGGCTTCATGACAGGATGATGCTCTCTTTCACCAATATATACCTACGCTGC 1784
 Db 1685 GACGAGGCTTCATGACAGGATGATGCTCTCTTTCACCAATATATACCTACGCTGC 1744
 QY 1785 CAAATATGAGCTCTGTCTGAGCAAGAGGCAACCTGAGTGTATGGAGAGAGAGAG 1844
 Db 1745 CTGATGAGGCTCTGTCTGAGCAAGAGGCAACCTGAGTGTATGGAGAGAGAGAGAG 1804
 QY 1845 GATGAGCTTCATGACAAAATCTGTGAGTGTGAGTGTGATCTTACCAACAGAGCTGC 1904
 Db 1805 GACGAGCTTCATGACAAAATCTGTGAGTGTGAGTGTGATCTTACCAACAGAGCTGC 1864
 QY 1905 GTGAGTGTGAGCAAGATGAGCAAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1964
 Db 1865 GTTGTGTGAGGAGCAAGATGAGCAAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 1924
 QY 1965 CTGAGGCAAGGAGCAATGATGAGGAGGCTGCTCATCTCTCTACCTGAGTGTCTGCA 2024
 Db 1925 CTGAGGCAAGGAGCAATGATGAGGAGGCTGCTCATCTCTCTACCTGAGTGTCTGCA 1984
 QY 2025 GCTCATTTGCTTTGAGATGACAAAATTTCAAGTACTGACATGACATGACATGACATG 2084
 Db 1985 GCAACCTGCTACATGATGACAGAGATTCAGGTACTGACAGCCCAAGAGTGTGAGG 2044
 QY 2085 TTCTGAGGCTGTGAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2144
 Db 2045 TTCTGAGGCTGTGAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2104
 QY 2145 AAACGATATCATACCAACCTCTCTTCATGATGATGATGATGATGATGATGATGATG 2204
 Db 2105 AAACGATATCATCTCCACCCCTCTTCAATGATGATGATGATGATGATGATGATGATG 2164
 QY 2205 CTGAGCTGTGAGAGAGTGTGAGTGAAGACACACACCTGCTGAGGAGAGAGAGAGAG 2264
 Db 2165 CTGAGCTGTGAGAGAGAGTGTGAGTGAAGACACACACCTGCTGAGGAGAGAGAGAG 2224
 QY 2265 GCTACCAATGCTCTCTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2324
 Db 2225 GCTCTCCATGCTCTCTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2284
 QY 2325 GAGGAGAGTACCGAGAGCTGTATCTGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2384
 Db 2285 TATGAG 2344
 QY 2385 ACCTTGTGAG 2444
 Db 2345 ACCTTGTGAG 2404
 QY 2445 AGTGGAGAGTGTGAG 2504
 Db 2405 AGTGGAGAGTGTGAG 2464
 QY 2505 GATGGAGAGATGTTCCAGAGTGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2564
 Db 2465 GATGGAGAGATGTTCCAGAGTGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2524
 QY 2565 AAGGAG 2624
 Db 2525 AAGGAG 2584

QY 2625 GTATAGAGAGATGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2684
 Db 2585 GTATAG 2641
 QY 2685 CTGAGATGAG 2744
 Db 2642 CCAAGTGTGACAG--CCTGAGAGCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2699
 QY 2745 ACCGAGAGTGTGAG 2800
 Db 2700 ACATGACAGTGTGAG 2735

RESULT 6
 US-09-776-191-49
 ; Sequence 49, Application US/09776191
 ; Publication No. US2003011916B1
 ; GENERAL INFORMATION:
 ; APPLICANT: Edwin L. Madison
 ; APPLICANT: Edgar O. Ong
 ; APPLICANT: Jium-Chern Yeh
 ; APPLICANT: Corvas International, Inc.
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING
 ; TITLE OF INVENTION: TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND
 ; FILE REFERENCE: 24745-1607
 ; CURRENT APPLICATION NUMBER: US/09/776,191
 ; PRIOR FILING DATE: 2001-02-02
 ; PRIOR APPLICATION NUMBER: 60/213,124
 ; PRIOR FILING DATE: 2000-06-22
 ; PRIOR APPLICATION NUMBER: 60/234,840
 ; PRIOR FILING DATE: 2000-06-22
 ; PRIOR APPLICATION NUMBER: 60/179,982
 ; PRIOR FILING DATE: 2000-02-03
 ; PRIOR APPLICATION NUMBER: 60/183,542
 ; PRIOR FILING DATE: 2000-02-18
 ; PRIOR APPLICATION NUMBER: 09/657,968
 ; PRIOR FILING DATE: 2000-02-08
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 49
 ; LENGTH: 3147
 ; TYPE: DNA
 ; ORGANISM: Homo Sapien
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1865)...(2590)
 ; OTHER INFORMATION: Nucleic acid sequence of protease domain of MTPS1
 US-09-776-191-49

Query Match 60.6%; Score 1883.2; DB 10; Length 3147;
 Best Local Similarity 81.2%; Pred. No. 0;
 Matches 2223; Conservative 0; Mismatches 508; Indels 5; Gaps 3;

QY 45 GATCGACCGCCCAAAACCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 104
 Db 5 GAGCGGCTCGGGGATGATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 64
 QY 105 GATTTGCGCGGAGAGTCAAGTCAACTCCGAGTGTGAGAGAGAGAGAGAGAGAGAGAG 164
 Db 65 GACTTCGCGCGGAGAGTCAAGTCAACTCCGAGTGTGAGAGAGAGAGAGAGAGAGAGAG 124
 QY 165 GGTGTGAGAGTCTGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 224
 Db 125 GAGGTGAGAGTCTGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 184
 QY 225 TGGGTGTGAGTGTGAG 284
 Db 185 TGGGTGTGAGTGTGAG 244
 QY 285 CTGTGTGAGAGAGTGTGAG 344

245 CTGTTGTGCAATTTGCAATCCGGACGTCGCTGCCAGAGTCTTCAATGCTACATG 304
345 AGGATCACAAATGAGATCTTTCTGATGCGTATGAGAACTCCACTCCACAGATTATC 404
305 AAGATACAAATGAGATTTTGTGATGCTACGAGAACTCCAACTCCACTGATTTGA 364
405 AGCTGTCCAGCAGGTGAAAGAGGCGCTGAAAGCTGTGATCAATGAAGCCCTGCTG 464
365 AGCTGTCCAGCAGGTGAAAGAGGCGCTGAAAGCTGTGATCAATGAAGCCCTGCTG 424
465 GGTCCCTACCAAGAAGTGGCTGTAATGCTTCACTGAGAGGAGTGTCAATGCTTAC 524
425 GGTCCCTACCAAGAAGTGGCTGTAATGCTTCACTGAGAGGAGTGTCAATGCTTAC 484
525 TACTGTGAGATTGAGATTCCTCCCACTCTGAGAGAAAGTTGATGCGGCTATGCT 584
485 TACTGTGAGATTGAGATTCCTCCCACTCTGAGAGAGGAGTGTCAATGCTTAC 544
585 GTGAGAGGATTTGATCATTTGCCACCCCGAGACGGGCACTGAAATCTTCTGCTACA 644
545 GAGAGGCGGTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 604
645 TCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 704
605 TCACTGTGCTGCTTCCCTCCAGGACTCCAAAACAGTACAGAGAACCCAGGACAGCTGC 664
705 AGTTTGGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 764
665 AGCTTGGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 724
765 AACAGTCCCTACCGGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 824
725 GACAGGCTTACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 784
825 GTGCTGAGCTCACCCTTCGAAGCTTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 884
885 CTGTGACCGTGTATGATAGCTGAGGCTTGAAGCCCAAGCTGCTGCTGCTGCTGCTGCT 944
845 CTGTGACCGTGTATGATAGCTGAGGCTTGAAGCCCAAGCTGCTGCTGCTGCTGCTGCT 904
945 GGCACCTTCTACCCCTCTACAACTGACTTCTCTCTCCAGAAAGTCTTCTCTGCT 1004
905 GGCACCTTCTACCCCTCTCTACAACTGACTTCTCTCTCCAGAAAGTCTTCTCTGCT 964
1005 ACGGTATTAACAATAGTACCGGCGGATCCTGCTTGAAGGCACTTCTTCCAGCTG 1064
965 AACTGTATTAACAATAGTACCGGCGGATCCTGCTTGAAGGCACTTCTTCCAGCTG 1024
1065 CCGAAGATGAGAGCTGTGCGGCTTTTGAAGTGAACCCCAAGGAACTTTGAGAGCCG 1124
1025 CTTAGATGAGAGCTGTGAGGCGCTTACGTTAAAGCCCAAGGAACTTTGAGAGCCG 1084
1125 TACTATCAAGGCTACACCCGCGCAATCACTGACATGAGAAATATCAAGGTGCGCAAC 1184
1085 TACTATCAAGGCTACACCCGCGCAATCACTGACATGAGAAATATCAAGGTGCGCAAC 1144
1185 AACCGGAAGTGAAGGTGCGCTTCAACTTCTATCTGTGAGACCCCAAGTATCCAGTG 1244
1145 AACCGGAAGTGAAGGTGCGCTTCAACTTCTATCTGTGAGACCCCAAGTATCCAGTG 1204
1245 GGTCTCTGCAACGAGATATGAGATCAACGGGGAAGATGACGGGTGAGAGTGC 1304
1205 GGTCTCTGCAACGAGATATGAGATCAACGGGGAAGATGACGGGTGAGAGTGC 1264
1305 CAGTTGTGTGAGAGCAACAGAGAGATTAAGTCACTTCCATTTCTGATCACTGC 1364
1265 CAGTTGTGTGAGAGCAACAGAGAGATTAAGTCACTTCCATTTCTGATCACTGC 1324
1365 TACAGGACACCGGTTCTTGAAGTATCTTCTTCAAGATCTCAACGACCCGTGCA 1424
1325 TACAGGACACCGGTTCTTGAAGTATCTTCTTCAAGATCTCAACGACCCGTGCA 1384

1425 GGAATTTCAATGCAAGAAGTGAACGCTGATTCGAAAGAACTGCGCTGCCAGCGCTGG 1484
1385 GGGCAATTCACGTGCGGCAACGGGCGGTGTATCCGAAAGAGCTGCTGTGATGCTGG 1444
1485 GCAAGTCCCGGATTTATGATGATGAGCTTACTGCGAATGCAATGCAACCCAGTTC 1544
1445 GCGCATGCAACGCAACAGAGATGAGTCAACTGAGATTGCAACGCGCGGCGACAGTTC 1504
1545 ACGTGAAGAAACCAAGTTTGAAGCCCTCTTCTGAGTGTGAGACAGTGTCAACGACTG 1604
1505 ACGTGAAGAAACCAAGTTTGAAGCCCTCTTCTGAGTGTGAGACAGTGTCAACGACTG 1564
1605 GGGAGCAAGATGACAGAGAGGCTGAGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCT 1664
1565 GAGACAAACAGCAGCAGGAGGAGTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1624
1665 GGGAGTGTCTCCCTCAAGAGCCAGAAAGTGAATGGAAGAGCAACTGTGAGATGAGTCT 1724
1625 GGGAGTGTCTCCCTCAAGAGCCAGAAAGTGAATGGAAGAGCAACTGTGAGATGAGTCT 1684
1725 GACAGGCTTCATGAGCAGCGTGAATGCTCTTTCACCAATATPACTTACCGCTGC 1784
1685 GACAGGCTTCATGAGCAGCGTGAATGCTCTTTCACCAATATPACTTACCGCTGC 1744
1785 CAAATGCTCTGCTGCTGAGCAAGGCAACCTGAGTGTATGAGAGAGAGAGAGTATGAC 1844
1745 CTAATGAGCTCTGCTTGAAGCAAGGCAACCTGAGTGTATGAGAGAGAGAGAGTATGAC 1804
1845 GATGCTCCCATGAGAAACCTGAGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1904
1805 GACGCTCAATGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 1864
1905 GTGTTGTGTGAGCAAGAAATGCGAGAGGCGAGTGGCTTGGCAAGTGTGAGTGTGAGTGT 1964
1865 GTTGTGTGTGAGCAAGAAATGCGAGAGGCGAGTGGCTTGGCAAGTGTGAGTGTGAGTGT 1924
1965 CTGGGCAAGGCGCACTTGTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2024
1925 CTGGGCAAGGCGCACTTGTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1984
2025 GCTATGCTCTTCAAGATGACAAATTTCAAGTACTGACTGACTGACTGACTGACTGACTG 2084
1985 GCTATGCTCTTCAAGATGACAAATTTCAAGTACTGACTGACTGACTGACTGACTGACTG 2044
2085 TTCTGAGTGTGAGCAAGAGCAAGGCAAGTGTGCTTGGGAGTGAAGTGTGAGTGTGAGTGT 2144
2145 TTCTGAGTGTGAGCAAGAGCAAGGCAAGTGTGCTTGGGAGTGAAGTGTGAGTGTGAGTGT 2104
2105 AAGGCAATCATCTCCACCCCTTCTTCAATGACTTCACTTCAATGACTTCACTTCAATGACT 2164
2205 CTGAGCTGAGAGAGTGGTGAAGTGAAGCAACCTGCTGAGGCGCAATGCTGCTGCTGAT 2264
2165 CTGAGCTGAGAGAGTGGTGAAGTGAAGCAACCTGCTGAGGCGCAATGCTGCTGCTGAT 2224
2265 GCTACCAATGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2324
2225 GCTACCAATGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2284
2325 GAGGAGGATCCGAGAGCTGATCTCTGCAAGAGGAGATGATCGTGTCTCAACAGAGCC 2384
2285 TATGAGGCACTGGGCGCTGATCTCTGCAAGAGGAGATGATCGTGTCTCAACAGAGCC 2344
2385 ACGTGAAGACCTCAATGCGGAGAGATCAACCCCAAGATGATGATGATGATGATGATGAT 2444
2345 ACGTGAAGACCTCAATGCGGAGAGATCAACCCCAAGATGATGATGATGATGATGATGAT 2404
2445 AGTGGAGTGTGAGCTCTGCAAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 2504
2405 AGTGGAGTGTGAGCTCTGCAAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 2464

QY 2505 GATGGGCGAATGTTCCAGAGCTGTGTGAGCTGGGGGGAAGGCTGGCTCAGAGGAC 2564
 |||||
 Db 2465 GATGGGCGGATCTTCCAGGCGGGTGTGTGAGCTGGGAGACGGCTGGCTCAGAGGAC 2524
 |||||
 QY 2555 AAGCAGGCGGTGTACAGAGGCTCCCTGTAGTTCGGGAGCTGATCAAGAGCACTGGG 2624
 |||||
 Db 2525 AAGCAGGCGGTGTACAGAGGCTCCCTGTGTGGGAGCTGATCAAGAGCACTGGG 2584
 |||||
 QY 2625 GTATAGCAGCTGTACAGAGGCGGACCAAAACCCACAGGAGTGGCCGACATGACCA 2684
 |||||
 Db 2585 GTATAGGAGGCGGG---GCCACCCAAATGTGTACACCTGGGGCCACCCATCGTCCACC 2641
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 QY 2685 CTTGAGATACAGAGAGGAACTGACGACATTTATGCTGTGGCTCCCGCCCAACACA 2744
 |||||
 Db 2642 CCAAGTGTGACAG-CCTGCAAGCTGAGATCTGAGACCGGAGCTGACGACGAGCC-CCAGA 2699
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 QY 2745 ACCCAAGCTGTGAATGCTGATCTTGAAGACTGAGAGT 2780
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 Db 2700 ACATACAGCTGTGAATCTCAATCTCCAGGGGCTCCAAAT 2735
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RESULT 7

US-10-099-700A-1
 ; Sequence 1, Application US/10099700A
 ; Publication No. US20030008372A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Edwin L. Madison
 ; APPLICANT: Edgar O. Ong
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASE 7,
 ; FILE REFERENCE: 24745-1613
 ; CURRENT APPLICATION NUMBER: US/10/099,700A
 ; PRIOR FILING DATE: 2002-05-24
 ; PRIOR APPLICATION NUMBER: 60/275,592
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 3147
 ; TYPE: DNA
 ; ORGANISM: Homo Sapien
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (23)...(2589)
 ; OTHER INFORMATION: Nucleotide sequence encoding MTSp1
 ; PUBLICATION INFORMATION:
 ; AUTHORS: O'Brien, T.J. and Tanimoto, H.
 ; DATABASE ACCESSION NUMBER: GenBank #AB081724
 ; DATABASE ENTRY DATE: 2000-08-31
 ; PATENT DOCUMENT NUMBER: 5,972,616
 ; PATENT FILING DATE: 1998-02-20
 ; PUBLICATION DATE: 1999-10-26
 ; US-10-099-700A-1

Query Match 60.6%; Score 1883.2; DB 15; Length 3147;
 Best Local Similarity 81.2%; Pred. No. 0;

Matches 2223; Conservative 0; Mismatches 508; Indels 5; Gaps 3;

QY 45 GATGCGACCGCCAAAACATGGGTAGCAATCGGGCCGCAAGCGGAGGGGGCTCTCAG 104
 |||||
 Db 5 GAGGGGCTTCGGGGGTACATGGGAGCGATCGGGCCGCGCAAGGGGGGGGGCCCGAAG 64
 |||||
 QY 105 GACTTCGGCGGGGAGCTCAATGCAATCCCGGGCTAGAGAAACATGATGCTTTGAGAG 164
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 Db 65 GACTTCGGCGGGGAGCTCAATGCAATCCCGGGCAGAGAAAGTGAATGCTTGGAGGAA 124
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 QY 165 GGTGTGAGATTCTGCTGCGCAACATGCAAGAAAGTGAAGAGCGAGGCCCGCAGGCGC 224
 |||||
 Db 125 GGGCTGTGAGATTCTGCTGCGCAACATGCAAGAAAGTGAAGAGCGAGGCCCGGAGGCG 184
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 QY 225 TGGGTGTGCTGTGCGAGTGTCTGTTAGCTTCTTCTTCTCCCTCATGCTGAGCTTG 284
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 Db 185 TGGGTGTGCTGTGCGAGTGTCTGTTAGCTTCTTCTTCTTGTGCTTGGGAGTGGCTTC 244
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QY 285 CTGCTGTGAGCACTTCCATTTATCGGATGTGGGGTTCAAAAAGTCTTGAATGGCCATCTG 344
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 Db 245 CTGCTGTGAGCACTTTCAGATACCGGAGCGTGGTGTCCAGAAAGTCTTCAATGCTACATG 304
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 QY 345 AGATTCACAAATGAGATCTTCTGTATGCGATAGAGAACTCACTCCACAGAGATTATC 404
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 Db 305 AGATTCACAAATGAGATTTTGTGTATGCTTACAGAGAACTCACTCCACAGAGATTATC 364
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 QY 405 AGCTTGGCGAGCGATGAAAGAGAGCGCTGAAGTGTGTACAAATGAATGAGTCTGTCTG 464
 |||||
 Db 365 AGCTTGGCGAGCGATGAAAGAGAGCGCTGAAGTGTGTACAAATGAGTCTGTCTG 424
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 QY 465 GGTCCCTACCAAGAAAGTGGCTGTAACTGCTTCACTGATAGGAGCGATGTATGCTTAC 524
 |||||
 Db 425 GGGCTTACCAAGAAAGTGGCTGTAACTGCTTCACTGATAGGAGCGATGTATGCTTAC 484
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 QY 525 TACTGTGAGATTCAGATTCCTCCCACTGGGCAAGAGGTTGATGCGGCAATGGCT 584
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 Db 485 TACTGTGAGATTCAGATTCCTCCCACTGGGCAAGAGGTTGATGCGGCAATGGCT 544
 |||||
 QY 585 GTGAGAGATTTGTAACTTTCACATCCCGAGCAGCGGCACTGAATCTTGTGCTAACA 644
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 Db 545 GAGAGAGCGGTATGATGCTGCTCCCGCGGGCGGCTCCTGAATCTTGTGCTAACC 604
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 QY 645 TCTGTGATGGCTTCCCAATGACCCCAAGATGCTGAGAGAGCTCAGAGCAACAGCTGC 704
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 Db 605 TCACTGTGATGGCTTCCCAATGACCCCAAGATGCTGAGAGAGCTCAGAGCAACAGCTGC 664
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 QY 705 AGTTTTCCTGTGATGAGTGTGAGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 764
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 Db 665 AGTTTTCCTGTGATGAGTGTGAGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 724
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 QY 765 AACAGTCCCTAACCGGCGGATGCGGCTGCGAGTGTGCTGTGCGGAGAGCGCGACTCT 824
 |||||
 Db 725 GACAGGCTTACCGGCTGATGCGGCTGCGAGTGTGCTGTGCGGAGAGCGCGACTCT 784
 |||||
 QY 825 GTGCTGAGGCTTACCGGCTGATGCGGCTGCGAGTGTGCTGTGCGGAGAGCGCGACT 884
 |||||
 Db 785 GTGCTGAGGCTTACCGGCTGATGCGGCTGCGAGTGTGCTGTGCGGAGAGCGCGACT 844
 |||||
 QY 885 CTGTGACCGGTATGATGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 944
 |||||
 Db 845 CTGTGACCGGTATGATGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAG 904
 |||||
 QY 945 GGCACCTTCTACCGCTTCTTCAACTGACTTCTCTCTCTCCAGAAAGCTTCTCTGTGC 1004
 |||||
 Db 905 GGCACCTTCTACCGCTTCTTCAACTGACTTCTCTCTCTCCAGAAAGCTTCTCTGTGC 964
 |||||
 QY 1005 ACGTGTATACCAATGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1064
 |||||
 Db 965 ACATGTATACCAATGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1024
 |||||
 QY 1065 CCAAGATGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1124
 |||||
 Db 1025 CCAAGATGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1084
 |||||
 QY 1125 TACTATCCAGGCGACTACCGGCGCAACTCACTGACATGAGATGAGATGAGATGAGAT 1184
 |||||
 Db 1085 TACTATCCAGGCGACTACCGGCGCAACTCACTGACATGAGATGAGATGAGATGAGAT 1144
 |||||
 QY 1185 AACCGGAAAGTGAAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1244
 |||||
 Db 1145 AACCGGAAAGTGAAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1204
 |||||
 QY 1245 GGTCTTGTACCAAGATGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAG 1304
 |||||
 Db 1205 GGTCTTGTACCAAGATGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAG 1264
 |||||
 QY 1305 CAGTTTGTGTGAGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1364
 |||||
 Db 1265 CAGTTTGTGTGAGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAGTGTGAGAG 1324
 |||||

QY 1365 TACAGGACACCGGGTCTTCTAGCTAGTACCTCTCTTACGACTCCACAGACCGCTGCCA 1424
 DB 1325 TACACCGACACCGGGTCTTCTAGCTAGTACCTCTCTTACGACTCCACAGACCGCTGCCA 1384
 QY 1425 GGGATGTTATGTGCAAGATCGGATCGATCCGAAAGAACTGGCTGCGACGCTG 1484
 DB 1385 GGGCATTTACATGCGCGACGAGGCGGTATTCGGAAGAGAGTGGCTGTATGCTGG 1444
 QY 1485 GCAGATCGCCGGATTAATGATGAGCGTTACTGCGCATGTCAGTCCACCGCATGTT 1544
 DB 1445 GCCGACTGACCGACCGACAGCGATGAGCTCACTGCAAGTTGCGACCGCGCATCGATTC 1504
 QY 1545 ACCTGCAAAAACCAATTCTGCAAGCCCTTCTTGGGTCTGTGACAGTGTCAAGCTG 1604
 DB 1505 ACCTGCAAGAAACAAATTCTGCAAGCCCTTCTTGGGTCTGTGACAGTGTGAAAGCTG 1564
 QY 1605 GGGGACGGAAGTACGAGGAGGCGTGCAGCTGTCTGCTGGAGTTCAAGTGTCCAA 1664
 DB 1565 GGGACAAACAGCGACGAGCGAGGCTGCAATTGTTCGGCCGACGACCTTCAAGTGTCCAA 1624
 QY 1665 GGGAGTGTCTCCCTCAGAGCCAGAACTGTATGGAAGGACAACTGTGAGATGGGTCT 1724
 DB 1625 GGGAGTGTCTCTCGAAGAACCCAGAGTGCATGGAAGGACAACTGTGAGATGGGTCT 1684
 QY 1725 GACGAGGCTTATGTGACAGCGTGAATGTGTCTCTTGCACCAATATACCTACCGCTGC 1784
 DB 1685 GACGAGGCTTCTGCCCCAAGGTGAAGTGTGTCTCTTGCACCAACACTTACCGCTGC 1744
 QY 1785 CAAAATGGCCCTCTGTGAGCAAGGAGCAACCTGAGTGTGATGGAGAGGAGCTGAGC 1844
 DB 1745 CTCAATGGGCTCTGTGAGCAAGGAGCAACCTGAGTGTGATGGAGAGGAGCTGAGC 1804
 QY 1845 GATGGCTCCAGTGAAGAAACCTGTACTGTGGCTGCGATCTTTTACCAACAGGCTGCG 1904
 DB 1805 GACGGCTCAATGAGAAAGACTGTGCACTGTGGCTGCGATCTTTTACCAACAGGCTGCG 1864
 QY 1905 GTGTTGTGTGCAAGATGCGGACGAGGCGAGTGGCCCTGCGAGGTGAGCTCCAGCC 1964
 DB 1865 GTTGTGTGGGCGACGAGATGCGGATGAGGCGAGTGGCCCTGCGAGGTGAGCTCCAGCT 1924
 QY 1965 CTGGGCGACGGGCACTTGTGTGGGCTCGCTCATCTCTCTGACTGAGCTGCTTCTGCA 2024
 DB 1925 CTGGGCGACGGGCGACATCTGGGCTGCTCTCTCATCTCTCCCACTGCTGCTGCTGCC 1984
 QY 2025 GCTCATGCTCTTACAGATGACAAAAATTTCAAGTACTAGTACGATGTGAGCGGCC 2084
 DB 1985 GCACACTGCTCATGATGATGACAGAGATTTCAAGTACTAGTACGATGTGAGCGGCC 2044
 QY 2085 TTCTGTGGTCTGTGAGACGACAGCAAGCGCATGTGCTGGGGTGCAGAGCTGAAGCTC 2144
 DB 2045 TTCTGTGGTCTGTGAGACGACAGCAAGCGCATGTGCTGGGGTGCAGAGCTGAAGCTC 2104
 QY 2145 AAAGCATATCATCACCACTCTTCAATGATTTCACTTGCATGATGACATGCGCTTG 2204
 DB 2105 AAAGCATATCATCACCACTCTTCAATGATTTCACTTGCATGATGACATGCGCTTG 2164
 QY 2205 CTGAGCTGAGAGAGTGGGTGAGTACAGCACCGTGTGCGCCCATCTGCTGCTGAT 2264
 DB 2165 CTGAGCTGAGAGAGTGGGTGAGTACAGCACCGTGTGCGCCCATCTGCTGCTGAT 2224
 QY 2265 GCTACCCATGTTCTTCTCTGTGCAAGGCGCATGTGGGTGCAGAGCTGGGGGACACAAA 2324
 DB 2225 GCTACCCATGTTCTTCTCTGTGCAAGGCGCATGTGGGTGCAGAGCTGGGGGACACAAA 2284
 QY 2325 GAGGAGGATACGAGAGCGCTGATCTGCAAGAGGTGAGATCGGTGATCAACAGACC 2384
 DB 2285 TATGAGGATACGAGAGCGCTGATCTGCAAGAGGTGAGATCGGTGATCAACAGACC 2344
 QY 2385 ACCTGTGAGAGCTCATGCGCGACAGATCACTCCAGATGATGTGTGGTTCCTC 2444
 DB 2345 ACCTGTGAGAGCTCATGCGCGACAGATCACTCCAGATGATGTGTGGTTCCTC 2404
 QY 2445 AGTGGGGGTGTGACTCTGCGAGGGTGACTGTGGTGGCCCTTGTCAAGCGGAGAAA 2504

DB 2405 AGCGCGGCGTGAATCTCTGCGCAGGATGATTCGGGGGACCCCTGTGCAGCTGAGCGG 2464
 QY 2505 GATGGCGCAATTTCCAGGCTGTGTGAGCTGGGTGAAAGCTGCCTCAGAGAAC 2564
 DB 2465 GATGGCGGATTTCCAGGCTGTGTGAGCTGGGTGAAAGCTGCCTCAGAGAAC 2524
 QY 2565 AAGCGAGCGGTATACAAAGCTCCTGTATGTTGGGACTGTATCAAAAGACACTGGG 2624
 DB 2525 AAGCGAGCGGTATACAAAGCTCCTGTGTGAGTCAAAAGACACTGGG 2584
 QY 2625 GTATACAGATGAGACAGACCGCACCAAAACCCACAGGAGTCCCGCATGACACA 2684
 DB 2585 GTATAGGGCGCGG--GCCACCCAAATGTATACACTTGTGGGGCCACCATGTGACCC 2641
 QY 2685 CTTGATACAGAGAGAGAACACTGACACATTTATGCTGTGCGCTCCCCCAACACA 2744
 DB 2642 CAGGTGTGACG-CCTGACAGCTGAGATCTGAGACCGTGTGATGACAGGCGCC-CCAGA 2699
 QY 2745 ACCCAGACTGTGAATGCACTCTTACGACTCAGAGT 2780
 DB 2700 ACATACCTGTGAATCAATCTCAGGGCTCCAAAT 2735

RESULT 8

US-10-099-700A-3

Sequence 3, Application US/10099700A

Publication No. US20030008372A1

GENERAL INFORMATION:

APPLICANT: Edwin L. Madison

APPLICANT: Edgar O. Ong

TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASE 7, 1

FILE REFERENCE: 24745-1613

CURRENT APPLICATION NUMBER: US/10/099, 700A

PRIOR FILING DATE: 2002-05-24

PRIOR FILING DATE: 2001-03-13

NUMBER OF SEQ ID NOS: 22

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 3

LENGTH: 3147

TYPE: DNA

ORGANISM: Homo Sapien

FEATURES:

NAME/KEY: CDS

LOCATION: (1865)..(2590)

OTHER INFORMATION: Nucleic acid sequence of protease domain of MTPS1

US-10-099-700A-3

Query Match

Best Local Similarity

Matches 2223; Conservative

60.6%; Score 1883.2; DB 15; Length 3147;

81.2%; Pred. No. 0;

0; Mismatches 508; Indels 5; Gaps 3;

QY 45 GATCGGACCGCCAAAACCATGATGATGAGGCGCGCAAGCGGAGGCTCTGAG 104
 DB 5 GAGCGGCTCTGGGTGACATGAGGAGCAATGCGGCCCGCAAGGCGGAGGCGCCGAAAG 64
 QY 105 GACTTCGGGCGGAGACTCAAGTACAACTCCCGCTAGAGAAATGATGCTTTAGAGAG 164
 DB 65 GACTTCGGGCGGAGACTCAAGTACAACTCCCGCGACAGAAAGTGAATGCTTTGAGGAA 124
 QY 165 GGTGTGAGTTCTGTCTGCGAACAATGCGCAAGAAAGTGAAGAGCGAGGCGCGC 224
 DB 125 GGGGTGAGTTCTGTCTGCGAACAATGCGCAAGAAAGTGAAGAGCGAGGCGCGC 184
 QY 225 TGGGT 284
 DB 185 TGGGT 244
 QY 285 CTGTGTGTGCACTTCATTATCGAAATGTGCGGTTCAAAAGCTTTCAATGCGCATCTG 344
 DB 245 CTGTGTGTGCACTTCATTATCGAAATGTGCGGTTCAAAAGCTTTCAATGCGCATCTG 304

QY	345	AGGATCAAAATGAGATCTTTCTGATGCTGATGATGAACTTCCACTCCAGAGATTATC	404
Db	305	AGGATCAAAATGAGAAATTTTGTGATGCTTACAGAACTCCAACTCCATGAGTTTGT	364
QY	405	AGCCTGCGCAGCCAGGTGAAGGAGCGCTGAAGTCTGTTTCAATGAATGATTCCTGCTG	464
Db	365	AGCCTGCGCAGCAGAGGTGAAGGAGCGCTGAAGTCTGTTACAGCGAGTCCCAATTCCTG	424
QY	465	GCTCCCTTACCAAGAAAGTGGCTGTAACTGCTTCAAGTGAAGGCGAGTCAATCGCTAC	524
Db	425	GGCCCTTACCAAGAGAGTGGCTGTGAAGGCTTCAAGAGGCGAGCTCAATCGCTAC	484
QY	525	TACTGTTCAAGTTCAAGATTCCTCCCAACCTTGCAAGAGGTTGATCGCGCATAGAT	584
Db	485	TACTGTTCAAGTTCAAGATTCCTCCCAACCTTGAGAGGCTTGAAGGCTGATAGGCC	544
QY	585	GTTGAGGAGATTGTAACTTGGCACTCCCGGACAGGGCACTGAATCTTGTGCTTACA	644
Db	545	GAGAGGCGGTAGTCAATGCTGCCCCCGGGCGCGTCTCTGAAGTCTTGTGGTCAAC	604
QY	645	TCTGTGTGGCTTTCCCATTTGAACCCAGAAATGCTCAGAGGATCAGAGCAACAGTCC	704
Db	605	TCAATGGTGGCTTTCCCAAGAGATCCAAACAGTACAGAGACCCAGGACAACAGCTGC	664
QY	705	AGTTTGGCTCGATGCCATGGTGAAGAGATGACAGCTTCACTACCTCGGCTTCCCTC	764
Db	665	AGCTTTGGCTCGACCCCGCGGTGTGAGAGCTGATGCTTCAACAACGCGCGCTTCCCT	724
QY	765	AACAGTCCCTTACCCGGGCGATGCGCGCTCCAGTGGTCTCGGGGGAGCGCGCATCT	824
Db	725	GACAGCCCTTACCCGCGTATGCGCGCTCCAGTGGGCTCTCGGGGGAGCGCGCATCA	784
QY	825	GTCCTGAGGCTACCTTCCGAAGCTTGAATGTCGCTCCCTGATGAGAGATGCGAGTAC	884
Db	785	GTCCTGAGGCTACCTTCCGAGCTTTGACTTGGCTCTGGAAGAGCGCGGACGCAAC	844
QY	885	CTGTGTACCGGTATGATATGCTTAGCGCCCATGAAACCCACGCTGTGTGCGGCTGT	944
Db	845	CTGTGTACCGGTATGAAACCTTGAGCCCATGAGGCCCAAGCCCTGTGTCAATTTGT	904
QY	945	GGCACCTTGTACCCCTCCACAACTGACTTTTCTCTCTCTCCAGAACTGCTTCTGTG	1004
Db	905	GGCACCTTACCTCCCTCCACAACTGACTTTCACCTTCCAGAAAGTCTCTCATC	964
QY	1005	ACGCTGATTAACCAATATCTAGCCGCGGATCCTGGCTTTGAGGCACTTTTCCACTG	1064
Db	965	ACACTGATTAACCAATATCTAGAGGCGGATCCGGCTTTGAGGCACTTTTCCACTG	1024
QY	1065	CCCAAGATGAGCAGCTGTGGCGCTTTTGAAGTACCAACCAAGGAGACATTTAGCAGCCC	1124
Db	1025	CCTAGATGAGCAGCTGTGAGGCGCTTTAGTAAAGCCAGGGGACATTCAAAGCCCC	1084
QY	1125	TACTATCCAGGSCACTACCGGSCCAACATCACTGCACTGGAATATCAAGTCCCAAC	1184
Db	1085	TACTATCCAGGSCACTACCCCAACATTTGACATGCAATGGAACATTTGAGGTGCCAAC	1144
QY	1185	AACCGGAACGTGAAGTGCGCTTCAAACTCTTATCTGGTGAAGCCCAAGTAAACAGTG	1244
Db	1145	AACCAAGATGGAAGTGAGCTTCAAAATCTTCTTACTGCGAGCCCGGCGTGGCG	1204
QY	1245	GGCTCTTGACAAAGACTATGTGAGATCAACGGGAGAGTAAGTGGCTGAAGGCTC	1304
Db	1205	GGCACTTGCCCAAGACTACGTGAGATCAATGGGAGAAATATCTGGAGAGAGGCTC	1264
QY	1305	CAGTTTGTGAGACAGACAAGAGAGATTAACATCACTTCCATTTCTATCACTCG	1364
Db	1265	CAGTTTGTGACACAGACAAGACAAGATCAAGTTTGGCTTCACTAGATCACTGC	1324
QY	1365	TACACGACACACCGGTTCTAGCTGAATACCTCTCTCAAGCTCAACAGACCGGTGCCA	1424
Db	1325	TACACGACACCGGCTTCTTAGTGATTAACCTCTCTCAAGCTCCAGTGAAGCCATCCCG	1384

QY	1425	GGGATGTTCAATGTCCAAAGCTGACAGGTGCATCCGAAAGAACTGCCTGCACAGCTGG	148
Db	1385	GGGAGATTCAAGTCCCGCACCGGGCGGTGTATCCGAAGAGAGCTGGCTGATGGCTGG	144
QY	1485	GCAGACTGCCCGGATTTATGATGAGACGGTTACTGCCGATGCAATGCCACCCACAGTTG	154
Db	1445	GCCGACTGCAACCGACCCACAGGATGAGCTCAACTGCAGTTGGCAGCGCCGACCAAGTTG	150
QY	1545	ACGTGCAAAAACCAATTCGCAAGCCCTCTTCGGAGTCTGTGACAGTGTCAACGACTGT	160
Db	1505	ACGTGCAAGAAACAAGTTCTGTGCAAGCCCTCTTCGTGGTCTTGCAAGTGTGAACGACTGC	156
QY	1605	GGGACCGAAAGTGAAGAGAGGGCTGACGCTGTCTGCTGGAGTTTCAAGTGTTCGAAT	166
Db	1565	GGAAACAACACGACGACGAGGGGTGAGTTGTCCGGCCCAAGACCTTCAGTGTTCGAAT	162
QY	1665	GGGAAAGTGTCCCTTCAGACCCAGAAAGTGTATATGGGAAGCAACTGTGAGATGGGTCT	172
Db	1625	GGGAAAGTGTCTTGGAAGAACCGACAGTGTGAATGGGAAGCAACATGTGGGAGCGGTGC	168
QY	1725	GACGAGGCTTCATGTGACAGCGTGAATGTGTCTCTGCAACCAATATACATCCGCTGC	178
Db	1685	GACGAGGCTCTCCGCCCAAGGTGAACGTCTGTAATTGTACCAACAACCTTACCGCTGC	174
QY	1785	CAAAATGCTCTGTCTGAGCAAGGGCAACCTGACTGTGATGGGAAGACGCACTGTAGC	184
Db	1745	CTCAATGAGGCTCTGCTTGTGAGCAAGGGCAACCTGAGTGTGACGGGAAGGAGACTGTAGC	180
QY	1845	GATGCTCCGATGTAGAAAACGTGTACTGTGGGCTGTGCATCCTTTACCAACAGGCTGCG	190
Db	1805	GACGCTCTCAAGTATAGAAAGACTGTGCACTGTGGGCTGTGCTCATTCACGAGCAGGCTGCT	186
QY	1905	GTGGTTGTGTGACAGATCGGACGAGGGCGAGTGGCCCTGGCAGGTGAGCCTCCACGCG	196
Db	1865	GTGTGTTGGGGGCAACGAGTTCGGATATAGGGCAGATGGCCCTTGCAAGTAAAGCTGTGATGT	192
QY	1965	CTGGGCAAGGGCACTTGTGTGGGCTTGACTCATCTCTCGACGTGGCTGTCTGTGCA	202
Db	1925	CTGGGGCAAGGGCAACATCTGCAGTCTTCCCTCATCTCTCCCAACTGGCTGTCTGTGCG	198
QY	2025	GCTCATTTGCTTCAAGATGACAAAATTTCAAGTACTCAAGTACAGATGTGACGCGC	208
Db	1985	GCACACTGTCTACATGATGACAGAGATTCAGGTACTCAGACCCCGACAGTGGACGCGC	204
QY	2085	TTCTGTGGTCTGTGTGACACAGACGAGCGGAGTGCCTGTGGGGTGCAGGACTGAAGCTC	214
Db	2045	TTCTGTGGGCTTSCAGACCAAGACGACGCGCGCCCTGGGGTGCAGGAGCGCAGGCTC	210
QY	2145	AAAGTATATCATCCACACCTTCTCTTAATGATTTCACTTTCAGTATGATGATCGCTTG	220
Db	2105	AAGCCCATCATCTCCACCCCTTCTTCAATGACTTACCTTTCAGTATGATGATCGCTTG	216
QY	2205	CTGAGAGCTGAGAAAGTGGTGGATTTACAGACCGTGTGGCCGCCCATCTGTGCTGCTGAT	226
Db	2165	CTGAGAGCTGAGAAACCGGACAGATTTACGTTCAATGTGTGGCCGCCCATCTGTGCTGCGAC	222
QY	2265	GCTACCCATGTCTTCCCTGTGAGAAAGGCACTGTGGGTCAACGGCTGGGGGCACAAAA	232
Db	2225	GCTACCCATGTCTTCCCTGTGGGGAAGGCACTGTGGGTCAACGGCTGGGGGCACACCAG	228
QY	2325	GAGGAGGTTACCGGAGCGCTGTACTCTGACAGAGGGTGAATCCGTTCATCAACAGAGCC	238
Db	2285	TATGAGAGCACTGGCGCGCTGATCTCAAAAGGGTGAATCCGCGTCAATCAACAGAGCC	234
QY	2385	ACCTGTGAGGACCTCATGCGGAGCAATATACCCCAAGATGATGTGTGTGGGTTTCTTC	244
Db	2345	ACCTGTGAGAACCTTCTGCGCGACAGCAATATACCCCGGACATGATGTGCGTGTGCTTCTTC	240
QY	2445	AGTGGGGGTGTGACTCTCTCAAGGTTGACTTGTGTGTGGCCCTTGTCAAGCCGCGAGAAA	250
Db	2405	AGCGGCGCGTGTGACTCTCTCAAGGTTGATTCGGGGGAACTCTTGTTCAGCGTGTGGGCG	246
QY	2505	GATGGGGAATGTTCCAGGCTGTGTGTGTGAGCTGGGGTGAAGGCTGCCTCAGAGAAAC	256

DB 2465 GATGGCGGATCTTCACAGCGGTGTGTGAGCTGGGAGACGCTGGCTCAGAGAAC 2524
QY 2565 AAGCCAGGCGTGTACACAAAGGCTCCCTGTAGTTGGGAGCTGTATCAAGAGACACTGGG 2624
DB 2525 AAGCCAGGCGTGTACACAAAGGCTCCCTGTAGTTGGGAGCTGTATCAAGAGAACTGGG 2584
QY 2625 GTATGACAGCATGACAGACAGCCGACCAAAACACCCACAGGATGCCCCGACATGACAA 2684
DB 2585 GTATAGGGGCGCGG---GCCACCCCAATGTGTACACCTGGGCGCCACCCATGTCACG 2641
QY 2685 CCGTATACAGAGAGAGACACTGACGATTTATGCTGGGCTCCCGCCCAACACA 2744
DB 2642 CCAAGTGTGACG-CCTGCAGGCTGGAGACTGGACCGCTACAGCAACGAGGCC-CCAGA 2699
QY 2745 ACCCAGACTGTGAATGCTACCTCTTAGACTCAAGT 2780
DB 2700 ACATACACTGTGAATCACTCTCAGGGCTCCAAAT 2735

RESULT 9
US-10-190-030B-1
; Sequence 1, Application US/10190030B
; Publication No. US20030134298A1
; GENERAL INFORMATION:
; APPLICANT: Madison, Edwin
; APPLICANT: Ong, Edgar
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING A
; TITLE OF INVENTION: TRANSMEMBRANE SERINE PROTEASE 20, THE ENCODED POLYPEPTIDES AND
; TITLE OF INVENTION: METHODS BASED THEREON
; FILE REFERENCE: 24745-1618
; CURRENT APPLICATION NUMBER: US/10/190,030B
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3147
; TYPE: DNA
; ORGANISM: Homo Sapien
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (23)...(2589)
; OTHER INFORMATION: Nucleotide sequence encoding MTRSP1
; PUBLICATION INFORMATION:
; AUTHORS: O'Brien, T.J. and Tanimoto, H.
; DATABASE ACCESSION NUMBER: Genbank #AF081724
; DATABASE ENTRY DATE: 2000-08-31
; PATENT DOCUMENT NUMBER: 5,972,616
; PATENT FILING DATE: 1998-02-20
; PUBLICATION DATE: 1999-10-26
; US-10-190-030B-1

Query Match 60.6%; Score 1883.2; DB 15; Length 3147;
Best local similarity 81.2%; Pred. No. 0;
Matches 2223; Conservative 0; Mismatches 508; Indels 5; Gaps 3;

QY 45 GATGAGCCGCCAAACCATGATGTGCAATCGGGGCCGACAGGCGGGGCGTCTAG 104
DB 5 GAGCGGCTCGGGGTATCCATGAGGAGCGATCGGCGCGGAGGGGAGGGGCGCGAAG 64
QY 105 GACTTCGGCGGGGACTCAAGTACAACTCCCGGACAGAAAGTGAATGCTTTGAGAG 164
DB 65 GACTTCGGCGGGGACTCAAGTACAACTCCCGGACAGAAAGTGAATGCTTTGAGAG 124
QY 165 GGTGTGAGTTCTCTGCTCGGACCAATGCAAGAAAGTGGAGAGGAGGCGCCAGGCGC 224
DB 125 GCGGTGAGTTCTCTGCTCGGACCAATGCAAGAAAGTGGAGAAAGCATGCGCGGCGC 184
QY 225 TGGGTGAGTTCTCTGCTCGGACCAATGCAAGAAAGTGGAGAAAGCATGCGCGGCGC 284
DB 185 TGGGTGAGTTCTCTGCTCGGACCAATGCAAGAAAGTGGAGAAAGCATGCGCGGCGC 244
QY 285 CTGGGTGAGTTCTCTGCTCGGACCAATGCAAGAAAGTGGAGAAAGCATGCGCGGCGC 344

DB 245 CTGGGTGAGTTCTCTGCTCGGACCAATGCAAGAAAGTGGAGAAAGCATGCGCGGCGC 304
QY 345 AGGATCACAAAATGAGATCTTCTGTGATCGATATGAAATCCCACTCCACAGATTATC 404
DB 305 AGGATCACAAAATGAGATCTTCTGTGATCGATATGAAATCCCACTCCACAGATTATC 364
QY 405 AGCTTGAGGACGAGTGAAGAGGCGCTGAAAGCTGTCTTAACAATGAAATCCCTGTCG 464
DB 365 AGCTTGAGGACGAGTGAAGAGGCGCTGAAAGCTGTCTTAACAATGAAATCCCTGTCG 424
QY 465 GGTCTTACCAAAAGTGGCTGTAATGCTTCAGTGAAGGCGAGTGTCAATGCGCTAC 524
DB 425 GCGCCCTACCAAAAGTGGCTGTAATGCTTCAGTGAAGGCGAGTGTCAATGCGCTAC 484
QY 525 TACTGTGAGTTGAGCATATCCCGCCACACTGCGAAGAAAGTTGATGCGCATGCT 584
DB 485 TACTGTGAGTTGAGCATATCCCGCCACACTGCGAAGAAAGTTGATGCGCATGCT 544
QY 585 GTGAGCGAGTTGTAATTCATTCACATCCCGCCACACTGCGAAGAAAGTTGATGCGCAT 644
DB 545 GAGAGCGCGTGTGATGCTGCTGCGCGCGCGCGCTCCCTGAAGTCTTTGTGTACG 604
QY 645 TCTGTGTGCTGCTTCCCGCATGACCCAGAAATGCTGAGAGACTGAGACAACTGCTG 704
DB 605 TCAGTGTGCTTCCCGCATGACCCAGAAATGCTGAGAGACTGAGACAACTGCTGCTG 664
QY 705 AGTTTGCCCTGATCCCATGATGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 764
DB 665 AGCTTTGGCTGACGCGCGGCTGTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 724
QY 765 AACAGTCTTACCCGCGGACATGCGCGCTGCAATGAGTCTCGGGGGGAGCGCGATCT 824
DB 725 GACAGCGCTTACCCGCGGACATGCGCGCTGCAATGAGTCTCGGGGGGAGCGCGATCT 784
QY 825 GTCTGAGCTTACCTTCCGAGCTTGAATGATGCTGCTGATGAGCATGAGCATGAC 884
DB 785 GTCTGAGCTTACCTTCCGAGCTTGAATGATGCTGCTGATGAGCATGAGCATGAC 844
QY 885 CTGTGACCGTGTATGATGATGCTGAGGCTGAGGCAACCCAGCTGTGCTGTGT 944
DB 845 CTGTGACCGTGTATGATGATGCTGAGGCTGAGGCAACCCAGCTGTGCTGTGT 904
QY 945 GGCACCTTTCACCTCTCTTACAACTGATCTTCTCTCTCCAGAAAGTCTCTCTATC 1004
DB 905 GGCACCTTTCACCTCTCTTACAACTGATCTTCTCTCTCCAGAAAGTCTCTCTATC 964
QY 1005 AACGTTGAATCCAAATGATGACCGGCGCATCTGCTTGAAGGCACTTCTTCAAGT 1064
DB 965 AACGTTGAATCCAAATGATGACCGGCGCATCTGCTTGAAGGCACTTCTTCAAGT 1024
QY 1065 CCAAGATGAGCAGCTGTGCGGCTTTTGAATGACCCCAAGGACATTTAGAGCGCC 1124
DB 1025 CCTAGATGAGCAGCTGTGAGGCGCTTGAATGAGGCAAGGAGCACTTCAAGCGCC 1084
QY 1125 TACTATCCAGGCACTTACCGGCGCAATCAACTGACATGAAATATCAAGTGTCCAA 1184
DB 1085 TACTATCCAGGCACTTACCGGCGCAATCAACTGACATGAAATATCAAGTGTCCAA 1144
QY 1185 AACCGAATGAGAGTGTGCTTCAACTCTTATGCTGTGAGACCCCAAGTATCAAGT 1244
DB 1145 AACCGAATGAGAGTGTGCTTCAACTCTTATGCTGTGAGACCCCAAGTATCAAGT 1204
QY 1245 GGTCTCTGACCAAGACTATGTGAGATCAAGGAGGAGAAATTAATGCGGTGAGAGTCC 1304
DB 1205 GGTCTCTGACCAAGACTATGTGAGATCAAGGAGGAGAAATTAATGCGGTGAGAGTCC 1264
QY 1305 CAGTTTGTGTGAGAGCAAGAGCAAGCAAGATTAAGTCACTTCCATCTGATCACTG 1364
DB 1265 CAGTTTGTGTGAGAGCAAGAGCAAGCAAGATTAAGTCACTTCCATCTGATCACTG 1324
QY 1365 TACAGGAGACCGGGTCTTACTGATGATCTTCTCAAGATCAAGACCCGTGCCA 1424

Db 1325 TACACCGACACCGGCTTCTTAGTGAATACCTCTCTACGACTCCAGTACCCATGCCCG 1384
 QY 1425 GGGATGTTTCATATGTCGCAACACTGAGACGGTGCATCCGAAAGAACTGCGTGCAGCGCTGG 1484
 Db 1385 GGGAGATTTCAGTCCGCCACCGGGCGGGTGTATCCGAAAGAGCTGCCGTGTGATGGCTGG 1444
 QY 1485 GCACACTGCCCGGATTTAGATGAGCGTTTACTGCCGATGCAATGCCACCCACAGTTCC 1544
 Db 1445 GCCGACTGCACCGACCGACAGCGATGAGCTCAACTGCAAGTTGCCAGCGCGCCACAGTTCC 1504
 QY 1545 ACCTGCAAAAAACAGTTCTGCAAGCCCTCTTCTGGGCTGTGTGACATGTGCACAGCATGT 1604
 Db 1505 ACCTGCAAAAAACAGTTCTGCAAGCCCTCTTCTGGGCTGTGTGACATGTGCACAGCATGT 1564
 QY 1605 GGGGACGGAAGTATACGAGAGGCGCTGCAGCTGTCTGGCTGGAATTTCAAGTTCCAAAT 1664
 Db 1565 GGGAGACAAACGACGACGAGCGGGGTGCAATTGCCGCCAGACCTTCAAGTGTTCAAAT 1624
 QY 1665 GGGAGAGTGTCTCCCTCAGAGCGCGAAGTGTATATGGAGAGACAACTGTGGAGATGGGCTT 1724
 Db 1625 GGGAGAGTGTCTCTCGAAGAACCGACAGTGCATATGGAGAGACAACTGTGGGAGCGGGTCC 1684
 QY 1725 GACGAGGCTTTCATGTGACAGCGTGAATGTCTCTTGGACCAATATACCTACCGCTGC 1784
 Db 1685 GACGAGGCTCTCGCCCAAGGTGAACGTGTCTTGTATCCAAACACACTACCGCTGC 1744
 QY 1785 CAAAATGCGCTCTGTGTGACAAAGGCAACCTGAGTGTGATGGAGAGACGACTGTAGC 1844
 Db 1745 CTCAATGGGCTCTGCTTGGAGCAAGGCAACCTGAGTGTGACGGAAGAGAGACTGTAGC 1804
 QY 1845 GATGCTCCGATGAGAAAACTGTGACTGTGGCTGTGCAATCTTTTCCAAACAGGCTGCG 1904
 Db 1805 GACGGCTCATATGATGAGAGACTGCGACTGTGGCTGTGCAATCTTTTCCAAACAGGCTGCG 1864
 QY 1905 GTGGTGTGTGACAAATGCGGACGAGCGGAGTGGCTCTGCGAGGTGAGCTCCACGCGC 1964
 Db 1865 GTTGTGTGGGGCACGGAATCGGATGAGGCGAGTGGCTCTGCGAGGTGAGCTCCACGCGC 1924
 QY 1965 CTGGGCGAGGCGCACTTGTGTGGGCGCTGCTCATCTCTCTGACTGTGCTGTCTGCA 2024
 Db 1925 CTGGGCGAGGCGCACTGTGCGGTCTTCCCTCATCTCTCCCACTGTGCTGTCTCTGCC 1984
 QY 2025 GCTCATGTGCTTCAAGATGACAAAATTTCAAGTACTCAGACTTACAGATGTGACGCGCC 2084
 Db 1985 GCACACTCTTACATGATGACAGAGATTCAGATCTCAGACCCACACGACGAGCGCC 2044
 QY 2085 TTCTGGGTCTGCTGAGACGAGCAAGCGAGTGGCTCTGGGGGTGACAGAGCTGAAGTCTC 2144
 Db 2045 TTCTGGGCTTGCAGACGACGAGCGAGCGAGCGCTCTGGGGGTGACAGAGCGAGGCTC 2104
 QY 2145 AAACGTATCATACCCACCTCTCTTCAATGATTTCACTTGCAGCTATGACATGCGCTTG 2204
 Db 2105 AAGGCATCATCTCCACCCCTCTTCAATGATTTCACTTGCAGCTATGACATGCGCGTGG 2164
 QY 2205 CTGAGCTGAGAGAGTGGGTGAGTACGACACCGTGTGCGCCCATCTGCTGTCTGAT 2264
 Db 2165 CTGAGCTGAGAGAAACCGGACGAGTACGCTCATGTGCGGCCCATCTGCTGTCTGATC 2224
 QY 2265 GCTAACCATGTCTTCCCTGTGCAAGGCGCATCTGAGTCAAGGCTGGGGGACACAAAAA 2324
 Db 2225 GCGTCCCATGTCTTCCCTGTGCAAGGCGCATCTGAGTCAAGGCTGGGGGACACAAACC 2284
 QY 2325 GAGGAGAGTACCGGAGCGCTGATCTTGCAGAAAGGTGAGATCGGTGCATCAACCAAGCC 2384
 Db 2285 TATGAGAGCACTGCGCGCTGATCTTGCAGAAAGGTGAGATCGGTGCATCAACCAAGCC 2344
 QY 2385 ACCTGTAGAGACCTCATGCGGACGACATACCCCAAGATGATGTGTGGGTTTCTC 2444
 Db 2345 ACCTGTAGAGACCTCTTCCGACGACGATACCGCGGCAATGATGTGTGGGTTTCTC 2404
 QY 2445 AGTGGGGGTGTGACTCTTGCAGAGGTGACTGTGTGGGCTTGTCAAGCGCGAGAGAA 2504
 Db 2405 AGCGGCGGCTGTGACTCTTGCAGAGGTGATTTCCGGGGAGACCCCTGTGTCAACGTGTGGGCG 2464

QY 2505 GATGGGCGAATGTTCCAGGCTGTGTGTGTGAGCTGTGGGTGAAGGCTCGCTCAGAGAGAC 2564
 Db 2465 GATGGGCGAATCTTCCAGGCGCGGTGTGTGTGAGCTGTGGGAGACGGCTCGCTCAGAGAGAC 2524
 QY 2565 AAGCAGGCGTGTATACAAAGCTCCCTGTAGTTTCGGGACTGTGATCAAAAGACACTGGG 2624
 Db 2525 AAGCAGGCGTGTATACAAAGCTCCCTGTAGTTTCGGGACTGTGATCAAAAGACACTGGG 2584
 QY 2625 GTATAGCAGATGAGACAGACGACCGACCAACCAACCAAGGATCCCGACATGACAA 2684
 Db 2585 GTATAGGAGCGCGG---GCCACCAATGTGTACACCTGCGGGGCCACCATGTCTCAC 2641
 QY 2685 CCGATATACAGAGAGAGAAACATGACGACATTTATGTGTGCTTCCCGCCCGACACAA 2744
 Db 2642 CCAGTGTGACG---CTGACAGGCTGAGACTGACCGCTGACTGACACAGAGGCC---CCAGA 2699
 QY 2745 ACCCAGACTGTGAATGTCATCTTGAAGCTCAAGT 2780
 Db 2700 ACATACACTGTGAACTCAATCTTCAAGGCTCCAAAT 2735

RESULT 10
 US-10-190-030B-3
 ; Sequence 3, Application US/10190030B
 ; Publication No. US20030134298A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Medison, Edwin
 ; APPLICANT: Ong, Edgar
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING A
 ; TITLE OF INVENTION: TRANSMEMBRANE SERINE PROTEASE 20, THE ENCODED POLYPEPTIDES AND
 ; FILE REFERENCE: 24745-1618
 ; CURRENT APPLICATION NUMBER: US/10/190,030B
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 3147
 ; TYPE: DNA
 ; ORGANISM: Homo Sapien
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1865)...(2590)
 ; OTHER INFORMATION: Nucleic acid sequence of protease domain of MTSPI
 US-10-190-030B-3

Query Match 60.6%; Score 1883.2; DB 15; Length 3147;
 Best Local Similarity 81.2%; Pred. No. 0;
 Matches 2223; Conservative 0; Mismatches 508; Indels 5; Gaps 3;
 QY 45 GATGGAGCGCCAAACCATGGGTAGCAATGGGGCGGCAAGCGCGAGGGGCTCTCAG 104
 Db 5 GAGGGGCTCGGGGTATCCATGGGAGCGATGGGCGCCGCAAGGCGAGGGGCGCCGAG 64
 QY 105 GACTTGGGCGGGGAGCTCAATTAATCTCCGCGCTAGAGAAACATGATGCTTTGAGAG 164
 Db 65 GACTTGGGCGGGGAGCTCAATTAATCTCCGCGCGACAGAGAAAGTATGGCTTGAAGGAA 124
 QY 165 GGTGTGAGTTCCTGCTGCGAACAATGSCAAGAAAGTGGAGAGAGAGCCCAAGCGCC 224
 Db 125 GGGGTGAGTTCCTGCGCAAGTCAACAGTCAAGAAAGTGGAAAGCATAGGCGGGCGCC 184
 QY 225 TGGGTGTGCTGGTGGAGTGTCTTCACTTCTGCTTCCCTCATAGGCTGCGCTTG 284
 Db 185 TGGGTGTGCTGGGAGCGCGTGTGATCGGCTCTTGTGTGTGTGGGATGTGGCTTC 244
 QY 285 CTGGTGTGACACTTCAATTATGGAATGCGGGTTCAAAAGTCTTCAATGGCCATGTG 344
 Db 245 CTGGTGTGACATTGCAATTCGGGAGCGTGTGTCCAGAAAGTCTTCAATGGCTCATG 304
 QY 345 AGGATCAAAATGAGATCTTTCTGATGTGCTATGAGAACTCCACCTCCACAGATTATC 404

Db 305 AGGATCACAAATGAGAAATTTTGTGATGCTGACGAACTCCAACTCCAGTTGTA 364
 QY 405 AGCCTGGCCAGGAGTGAAGAGGCGCTGAAAGCTGCTGTATCAATGAAGTCCCTGTCTG 464
 Db 365 AGCCTGGCCAGGAGTGAAGAGGCGCTGAAAGCTGCTGTATCAAGGAGGATCCATTTCCG 424
 QY 465 GGTCTCCATCACAAAGAGTGGCTGTAACTGGCTTCAAGTGAAGGAGAGTCAATGCGCTAC 524
 Db 425 GGGCCCTTACCAAGAGAGTGGCTGTGAAGGCGCTTCAAGAGAGGAGCGTCAATGCTTAC 484
 QY 525 TACTGTGTCAGAGTGCATGCCCCCACTGGCGAGAAAGTTGATGCGCCATGCT 584
 Db 485 TACTGTGTCAGAGTGCATGCCCGAGCACCTGTGTGAAGAGGCGAGCGCTCATGAGCC 544
 QY 585 GTGAGAGGAGTTGTAACTATGCCACCCGAGACGCGGCACTGAAATCTCTTGTGCTTAA 644
 Db 545 GAGGAGCGGAGTGAAGTGGCTGGCCCCGCGGCGCGCTCCCTGAAAGTCTTGTGTGACCC 604
 QY 645 TCTGTGTGAGCTTCCCCCATTTGACCCCAAGATGCTGCAGAGAGCTGAGGACACAGCTGC 704
 Db 605 TCAGTGTGTGCTTCCCCACGAGCTCCAAACGTAAGAGAGCCAGAGCAACAGCTGC 664
 QY 705 AGTTTGGCCCTGATGCGCATGCTGAGAGAGTGAAGCAAGCTTCACTAACCCCTGCTTCCC 764
 Db 665 AGCTTTGGCTGACGCGCCGCGGCTGTGAAGCTGATGAGCTTCAACAGCCGCTTCCCT 724
 QY 765 AACAGTCCCTAACCCGCGCATGCGCCGCTGCAAGTGGTCTGTGGGGGGAGCGCGACTCT 824
 Db 725 GACAGCCCTTACCCCGCTCATGCGCCGCTGCAAGTGGGCTGTGGGGGGAGCGCGACTCA 784
 QY 825 GTGTGAGCTTCACTTCCGAAAGCTTGTATGTGCTCCCTGTATGAGCAATGAGCAATGAGTAC 884
 Db 785 GTGTGAGCTTCACTTCCGAAAGCTTGTATGTGCTCCCTGTATGAGCAATGAGCAATGAGTAC 844
 QY 885 CTGTGTACCGGTATGATAGCTGAGGCCCAATGAGAACCCCAAGCTGTGTGGGCTGTGT 944
 Db 845 CTGTGTACCGGTATGATAGCTGAGGCCCAATGAGAACCCCAAGCTGTGTGGGCTGTGT 904
 QY 945 GGCACCTTCTCAACCTCTCTACACCTGACTTCTCTCTCTCCAGAAAGCTCTTCTGTCT 1004
 Db 905 GGCACCTTACCT 964
 QY 1005 ACGCTGATTAACCAATCTGAACCGGCGAATCTGTGCTTGAAGGCACTTCTCTCAAGTGT 1064
 Db 965 ACGCTGATTAACCAATCTGAACCGGCGAATCTGTGCTTGAAGGCACTTCTCTCAAGTGT 1024
 QY 1065 CCCAAGATGAGCAGCTGTGTGGGCTTCTTGTGATGACACCCAGAGGACATTTAGACGCCCC 1124
 Db 1025 CCTAGATGAGCAGCTGTGTGGGCTTCTTGTGATGAGCAGCCAGGGGACATTTAGACGCCCC 1084
 QY 1125 TACTATCCAGGCACTTACCCGCGCAATCAATCTGACATGGAATATCAAGTGGCCCAAC 1184
 Db 1085 TACTATCCAGGCACTTACCCGCGCAATCTGACATGGAATATCAAGTGGCCCAAC 1144
 QY 1185 AACCGGAACGTGAAGTGGCTTCAAACTCTCTATCTGTGTGACCCCAACGTTACAGTGT 1244
 Db 1145 AACCGGAACGTGAAGTGGCTTCAAACTCTCTATCTGTGTGACCCCAACGTTACAGTGT 1204
 QY 1245 GAGCTCTGTGACCAAGACTATGTGAGATCAACGGGAGAAATCTGCGGTGAGAGTGT 1304
 Db 1205 GAGCTCTGTGACCAAGACTATGTGAGATCAACGGGAGAAATCTGCGGTGAGAGTGT 1264
 QY 1305 CAGTTGTGTGAGAGCAACAGCAGCAAGATTAAGTGTCCACTTCTCATCTGATCACTG 1364
 Db 1265 CAGTTGTGTGAGAGCAACAGCAGCAAGATTAAGTGTCCACTTCTCATCTGATCACTG 1324
 QY 1365 TACAGAGAAACGGGCTTCTAGTGTGATGATCTCTCTCAAGCTTCAAGCCGCTGCCCCA 1424
 Db 1325 TACAGAGAAACGGGCTTCTAGTGTGATGATCTCTCTCAAGCTTCAAGCCGCTGCCCCA 1384
 QY 1425 GGGAGTTTATGTGACAACTGAGCGGTGATCCGAAGGAACTGCGCTGCGACGAGCTGTG 1484
 Db 1385 GGGAGTTTATGTGACAACTGAGCGGTGATCCGAAGGAACTGCGCTGCGACGAGCTGTG 1444

QY 1485 GCAGACTGCCGATTTATATGATGAGGCTTATCTGCCAATGCAATGCCAACCACGATTC 1544
 Db 1445 GCCGACTGCACCGAACCAACAGGATGAGCTCAACTGAGTTGGAGCGCCGCGCACAGTTC 1504
 QY 1545 AGTGCACAAAACCAAGTTCTGCAAGCCCTCTCTGTGGTGTGAGACAGTGTCAACAGCTGT 1604
 Db 1505 AGTGCACAAAACCAAGTTCTGCAAGCCCTCTCTGTGGTGTGAGACAGTGTGTCAACAGCTGT 1564
 QY 1605 GGGAGCGAAGTGAAGAGAGGAGGCTGCAAGTGTCTCTGTGAGAAATTAATCTTACCGCTGC 1664
 Db 1565 GAGAGCAACAGGAGAGAGAGGAGTGTGAGTTGTCCGCGCCAGACCTTCAAGTGTTCAT 1624
 QY 1665 GGGAGTGTCTCTCTGAGAGCAAGTGTATATGGAAGAGCAACTGTGTGAGAGTGTGT 1724
 Db 1625 GGGAGTGTCTCTCTGAGAGCAAGTGTATATGGAAGAGCAACTGTGTGAGAGTGTGT 1684
 QY 1725 GACGAGGCTTCAATGTGACAGCGTGTAAATGTCTCTGTGACCAAAATATATCTTACCGCTGC 1784
 Db 1685 GACGAGGCTTCTCTGCCCCCAAGTGTGACGTCGATCTGTATCAAAACACACCTTACCGCTGC 1744
 QY 1785 CAAAATGAGCTCTGTGTGAGCAAGGCAACCTTGAATGTGATGGAAGACGAGCTGTAGC 1844
 Db 1745 CTCAATGAGCTCTGTGTGAGCAAGGCAACCTTGAATGTGATGGAAGACGAGCTGTAGC 1804
 QY 1845 GATGAGCTCCGATGAGAAAACTGTGACTGTGGGCTGTGATCTCTTACCAACAGGCTGCG 1904
 Db 1805 GACGAGCTCAGATGAGAGAGCTGCACTGTGGGCTGTGATCTTCAAGAGAGAGCTGTG 1864
 QY 1905 GTGTGTGTGTGAG 1964
 Db 1865 GTGTGTGTGTGAG 1924
 QY 1965 CTGGGCGAGGCGCACTTGTGTGGGCTGTGCTCATCTCTCTGACTGTGCTGTCTGTGCA 2024
 Db 1925 CTGGGCGAGGCGCACTTGTGTGGGCTGTGCTCATCTCTCTGACTGTGCTGTCTGTGCA 1984
 QY 2025 GCTTCATGCTTTTCAAGATGACAAAAATTTCAAGTACAGATCAACAGATGTGAGAGAG 2084
 Db 1985 GCAACATGCTTACATGTGACAGAGATGACAGATGACAGATGACAGATGACAGATGACAG 2044
 QY 2085 TTCTGTGGGCTGTGAG 2144
 Db 2045 TTCTGTGGGCTGTGAG 2104
 QY 2145 AAAGTATATCAACCAACCTTCTCTTCAATGATTTCACTTGTGACTATGATGAGAGAG 2204
 Db 2105 AAAGTATATCAACCAACCTTCTCTTCAATGATTTCACTTGTGACTATGATGAGAGAG 2164
 QY 2205 CTGAGAGCTGAGAAAGTGGTGTGAGTACAGCACCGTGTGGGCGCCCATGTGCTGCTGAT 2264
 Db 2165 CTGAGAGCTGAGAAAGTGGTGTGAGTACAGCACCGTGTGGGCGCCCATGTGCTGCTGAT 2224
 QY 2265 GCTTCCCAATGCTTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2324
 Db 2225 GCTTCCCAATGCTTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2284
 QY 2325 GAGGAGAGTACCGAGAGGCTGATCTCTGAGAAAGGATGATCCGTGTATCAACAGAGACC 2384
 Db 2285 TATGAGAGCACTGAGGCGCTGATCTCTGAGAAAGGATGATCCGTGTATCAACAGAGACC 2344
 QY 2385 ACTGTGTGAGAGAGTGTGAG 2444
 Db 2345 ACTGTGTGAGAGAGTGTGAG 2404
 QY 2445 AGTGGGGGAGTGTGAG 2504
 Db 2405 AGTGGGGGAGTGTGAG 2464
 QY 2505 GATGGGCGAATGTTCAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2564
 Db 2465 GATGGGCGAATGTTCAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2524

QY	1485	GCAGACTGCCCGGATATTATGTGATGAGCGTTATCTGCGCATGGAAGGCCAACCCACAGTTC	1544
Db	1445	GCCGACTGCAACCCACCAACGACGATGAGCTCAACTGATGTTGGACGCCGCCACCAAGTTC	1504
QY	1545	ACGTTGCAAAAACAGATTCTGCAAGACCCCTCTCTGGGCTCTGTCACATGTGCAACGACTGT	1604
Db	1505	ACGTTGCAAGAACAAATTCTGCAAGCCCTCTTCTGGGCTTGCGACAGTGTGAACGACTGC	1564
QY	1605	GGGAGCGGAAGTGAACGAGAGGGGCTGACGTGTCTCTGGGAGTTTCAAGTGTTCGAAT	1664
Db	1565	GGAGACAAACAGCGACGACGAGGGGCTCAGTTGTGCCGCCCAACCTTCAGGTTTCCAAAT	1624
QY	1665	GGGAAGTGTCTCCCTCAGAGGCCGAAGTGTAAATGGGAAGAACAACGTGGAATGGGCT	1724
Db	1625	GGGAAGTGCCTCTCGAAAACCCAGCAGTGTCAATGGGAAGAAGCACTGTGGGACGGGTCC	1684
QY	1725	GACGAGGCTTCATGTGACACGCGAATGTGCTCTTGGACCAAAATATACCTTACCGCTGC	1784
Db	1685	GACGAGGCTTCCTGCCCCAAGTGAAGCTGTCACTTGTAAACAAACACACTTACCGCTGC	1744
QY	1785	CAAAATGGGCTCTGTCTGACCAAGGCAACCTTGAGTGTGATGGGAAGACGGACTGTAGC	1844
Db	1745	CTCAATGGGCTCTGTCTTGGACCAAGGCAACCTTGAGTGTGACGGAAGAGGACTGTAGC	1804
QY	1845	GATGGCTCCGATGAGAAAACCTGTGATGTGGGCTGGAATCCTTTACCAACAGGCTGC	1904
Db	1805	GACGCGCTCAATGTGAAGAGACTGTGAGCTGTGGCTGGGTCAATTCCAGAACAGGCTGCT	1864
QY	1905	GTGTTGGTGGCAAGAAATGCGGACGAGGGGAGTGGCCCTGGCAGGTGAGCCTTCAAGCC	1964
Db	1865	GTTGTTGGGGCAACGATGCGGATGGAAGGCGAGTGGCCCTGGCAGGTGAAGCTGCATGCT	1924
QY	1965	CTGGGCCAGGGCACTTGTGTGGGGCTCGCTCATCTTCTCTGACTGGGCTGTCTTGA	2024
Db	1925	CTGGGCCAGGGCCACATCTGGGGTGCTTCCCTCATCTCTCCAACTGGGCTGTCTTGC	1984
QY	2025	GCTATGTGCTTCAAGATGACMAAAATTTCAAGTACCAACTCAACATGATGTGACAGGC	2084
Db	1985	GCACACTCTCATGTGATGACAGAGAAATTCAGTACTCAAGCCCCAGCAGTGTGACGGCC	2044
QY	2085	TTCCTGGGCTGTGTCGAGCCAGAGCAAGCGCACTCTGTGGGTGCAGAGCTGAAGCTT	2144
Db	2045	TTCCTGGGCTTTCAGGACCAAGGCCAGGCGCCCTGGGCGTGCAGAGCGCAGGCTT	2104
QY	2145	AAACGATCATCAACCAACCTTCTTCAATGATTTCACTTTCGACTATGACATGCTTGG	2204
Db	2105	AAGCGATCATCTCCACCCCTTCTTCAATGACTTCACTTCGACTATGACATGCGCTG	2164
QY	2205	CTGAGCTTGAGAGACTGGTGTGATGACAGCACCGTCTGGGCCCCCACTGCTGCTCAT	2264
Db	2165	CTGAGCTTGAGAAAACCCGCAAGTACAGCTTCATGTGTGGGCCCATCTGTGCCGAC	2224
QY	2265	GCTAACCATGTCTTCCCTGCTGGCAAGGCCAATCTGGGTCAACAGGCTGGGGCACAACAA	2324
Db	2225	GCTTCCATGTCTTCCCTGCTGGCAAGGCCAATCTGGGTCAAGGCTGGGGCACAACCAAG	2284
QY	2325	GAAGGAGTATCCGAGACCGCTGATCTTGTCAAGAGGTGATTCGTGTATCAACCAAC	2384
Db	2285	TATGAGAGCACTGGCGGCTGATCTTGTCAAAAGGTTGATTCGGTATCAACCAAGCC	2344
QY	2385	ACCTGTGAGAGCTTCACTGCGGACAGAAACACCCCAAGAAATGATGTGTGGGTTTCTC	2444
Db	2345	ACCTGTGAGAGCTTCCGCGGACAGAAATCAACCGCATGATGTGTGGGTTTCTC	2404
QY	2445	AAGTGGGGGTGTGACTCTGCGCAGGGTGAATCTGTGTGGCCCTTGTCAAGCGCGAGAA	2504
Db	2405	AAGCGCGGCTGTGACTTCTGTCCAGGGTATTCGGGGGACCCCTGTCCAGGTGAGGCG	2464
QY	2505	GATGGCGAATGTTCCAGGCTGTGTGTGATCTGGGCTGAAGCTGGCTTCAGAGAAC	2564
Db	2465	GATGGCGAATCTTCCAGGCGGCTGTGTGTGATCTGGGAGAGACGGCTGGCTCAGAGAAC	2524
QY	2565	AAGCGAGGCTGTACCAAGCTCCCTGTATGTTGGGACTGTGATCAAAAGAGCACTGGG	2624

DB	Sequence	Query Match	Best Local Similarity	Matches 2223;	Conservative	Score 1883.2;	DB 15;	Length 3147;	Pred. No. 0;	Mismatches 508;	Indels 5;	Gaps 3;
Db	2525 AAGCAGGCGGTACAAAGGCTCCCTCTGTTTCGGATGTGATCAAAAGAACACTGGG	45 GATCGAGCCGCCAAAACCATGGGTAGCAATCGGGGCGCAAGCGCGGAGGGGGCTCTCG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2625 GTATAGCAGCATGACAGACAGCCGACCAAAACACCCACAGGGATGCCGATCGACA	5 GAGCGGCGCTCGGGGTACCATGGGAGCGATCGGCGCCGCAAGCGCGGAGGGGGCGGAAG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2585 GTATAGGAGGGCGGG---GCCACCCAAATGTGTACACTGGGGGCCACCGATGTCACC	105 GACTTCGGCGCGGAGCTCAAGTACACTCTCCGGCTAGAGACATGATTAATGGCTTTAGGGAG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2685 CCTGATACAGAGAGGAACAATGACACATTTATGCTGGGCTCCCGCCCAACACA	65 GACTTCGGCGCGGAGCTCAAGTACACTCTCCGGCTAGAGACATGATTAATGGCTTTAGGGAG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2642 CCAGTGTACAGC-CCTGCGAGGCTGGAGACTGGACCGCTGACTGACACAGCGCC-CGAGA	165 GGTGTGAGTTCCTGCGCGGAGCAACAATGCCAAGAAATGGAAGCGAGCGCCACAGCGC	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2745 ACCGAGCTGTGACTGCATCTTACCTTAGACTCAGAGT	125 GGCCTGAGTTCCTGCGCGGAGCAACAATGCCAAGAAATGGAAGCGAGCGCCACAGCGC	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2700 ACATACCTGTGACTCAATCTCCAGGGCTCCAAAT	225 TGGGAGGCTGTGGGAGCGAGTGTCTGTTAGCTTCTCTTGTCTCTCCCTCATGCTGCTTG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2745 ACCGAGCTGTGACTGCATCTTACCTTAGACTCAGAGT	185 TGGGAGGCTGTGGGAGCGAGTGTCTGTTAGCTTCTCTTGTCTCTCCCTCATGCTGCTTG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2700 ACATACCTGTGACTCAATCTCCAGGGCTCCAAAT	285 CTGGTGTGCACTTCATTTATGCAATGCGAGTTCGAGGCTTCGAGGCTTCGAGGCTTCG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2745 ACCGAGCTGTGACTGCATCTTACCTTAGACTCAGAGT	245 CTGGTGTGCACTTCATTTATGCAATGCGAGTTCGAGGCTTCGAGGCTTCGAGGCTTCG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2700 ACATACCTGTGACTCAATCTCCAGGGCTCCAAAT	345 AGATCACAAAATGAAATTTTGTGTGATGCTTACGAGAACTCCACCTCCACAGAGTTTATC	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2745 ACCGAGCTGTGACTGCATCTTACCTTAGACTCAGAGT	305 AGATCACAAAATGAAATTTTGTGTGATGCTTACGAGAACTCCACCTCCACAGAGTTTATC	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2700 ACATACCTGTGACTCAATCTCCAGGGCTCCAAAT	405 AGCCTGGCGAGCGAGTGAAGAGCGCTGAAGCTCTGTACATGAAGTCTCTGCTCTG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;
Db	2745 ACCGAGCTGTGACTGCATCTTACCTTAGACTCAGAGT	365 AGCCTGGCGAGCGAGTGAAGAGCGCTGAAGCTCTGTACATGAAGTCTCTGCTCTG	60.6%;	81.28;	0;	60.6%;	81.28;	0;	81.28;	0;	81.28;	0;

QY 465 GGTCCCTACCAAGAAAGTGGCTGTAACTGGCTTCACTGAGGGCACTGTCTATCGCTAC 524
DB 425 GGCCCTTACCAAGAAAGTGGCTGTAACTGGCTTCACTGAGGGCACTGTCTATCGCTAC 484
QY 525 TACTGTGAGAGTTGAGCATCCCCCAACCTGGCAGAAAGAGTTGATTCGGCAATGGCT 584
DB 485 TACTGTGAGAGTTGAGCATCCCCCAACCTGGCAGAAAGAGTTGATTCGGCAATGGCT 544
QY 585 GTGAGAGAGTTGATTAATTCATTCACCCCGAGCACTGGCACTGAAATCTTGTGTACCA 644
DB 545 GAGAGAGAGTTGATTAATTCATTCACCCCGAGCACTGGCACTGAAATCTTGTGTACCA 604
QY 645 TCTGTGTGAGCTTCCCCATTTGACCCGAGAAATGTGAGAGAGTTGAGCAACAGCTGC 704
DB 605 TCACTGTGAGCTTCCCCCAAGAGTTGAGCAACAGTTGAGCAACAGCTGC 664
QY 705 AGTTTGGCTGTGAGCTTGGTGAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 764
DB 665 AGCTTGGCTGTGAGCTTGGTGAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 724
QY 765 AAGAGTCCCTACCCGGGCGCATGCGCGTGGCACTGGCTGGCGGGGAGCGCGCATCT 824
DB 725 GACAGGCTTACCCCGCTCATGCGCGTGGCACTGGCGCGGGGGAGCGCGCATCTCA 784
QY 825 GTGCTGAGCTCACTTCCGAAAGCTTGAATGTGCTCCCTGTGATGAGCATGGCACTGAC 884
DB 785 GTGCTGAGCTCACTTCCGAAAGCTTGAATGTGCTCCCTGTGATGAGCATGGCACTGAC 844
QY 885 CTGGTCAAGCTGTATGATAGCTGAGCCCATGGAACCCCAAGTGGTGGGCTGTGT 944
DB 845 CTGGTCAAGCTGTATGATAGCTGAGCCCATGGAACCCCAAGTGGTGGGCTGTGT 904
QY 945 GGCACTTGTCACTCTCTTCAACAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1004
DB 905 GGCACTTGTCACTCTCTCTTCAACAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCT 964
QY 1005 AGCTGATTAACCAATGAGAGGAGGAGTCTGCTGGTTTGAAGGCTTCTTCCAGCTG 1064
DB 965 AGCTGATTAACCAATGAGAGGAGGAGTCTGCTGGTTTGAAGGCTTCTTCCAGCTG 1024
QY 1065 CCCAAGATGAGCAGCTGTGGCGCTTTTGAAGTGAACAAGGAGGCAATTTGAGGCGCC 1124
DB 1025 CCTAGATGAGCAGCTGTGGCGCTTTTGAAGTGAACAAGGAGGCAATTTGAGGCGCC 1084
QY 1125 TACTATCCAGGCTCACTACCCGCTCAACATCACTGACATGGAATATCAAGTGGCCAAC 1184
DB 1085 TACTATCCAGGCTCACTACCCGCTCAACATGACTGACATGGAATATCAAGTGGCCAAC 1144
QY 1185 AACCGAAGTGAAGAGTGGCTTCAAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1244
DB 1145 AACCGAAGTGAAGAGTGGCTTCAAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1204
QY 1245 GGCTCTGACCAAGAGTATGATGAGTCAACGGGAGAGAGTACTGCGTGAAGGCTC 1304
DB 1205 GGCACTGCGCCCAAGAGTACTGATGAGTCAATGGGAGAAATACTGCGGAGAGGCTC 1264
QY 1305 CAGTTTGTGAGAGCAGCAAGCAGCAAGATTAACATTCACCTTCTGATCTACG 1364
DB 1265 CAGTTTGTGAGAGCAGCAAGCAGCAAGATTAACATTCACCTTCTGATCTACG 1324
QY 1365 TACAGCAGCAGCGGCTTCTAGCTGAGTCACTCTCTCTCTCTCTCTCTCTCTCTCTCT 1424
DB 1325 TACAGCAGCAGCGGCTTCTAGCTGAGTCACTCTCTCTCTCTCTCTCTCTCTCTCTCT 1384
QY 1425 GGGATGTTCAATGTCAGAGTGAAGCTGAGTCACTCTCTCTCTCTCTCTCTCTCTCTCT 1484
DB 1385 GGGATGTTCAATGTCAGAGTGAAGCTGAGTCACTCTCTCTCTCTCTCTCTCTCTCTCT 1444
QY 1485 GCAGAGTGGCGGATTAATGATGAGAGCTTATCTGCGATGCAATGCGACCAAGTTC 1544
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825 GTGCTGAGCTCACTTCCGAAAGCTTGTGATGCTCCCTGTGATGAGCATGCAAGT 884
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1905 GTGTTGTGTGAGCAAGAAATGCGAGAGGAGAGTGGCCCTGCGAGGTGAGCTTCA 1964
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RESULT 15

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Sequence 1, Application US/10112221A

Publication No. US20030166851A1

GENERAL INFORMATION:

APPLICANT: Ong, Edgar O.

APPLICANT: Madison, Edwin

TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 9

TITLE OF INVENTION: ENCODED POLYPEPTIDES AND METHODS BASED THEREON

FILE REFERENCE: 24745-1615

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CURRENT FILING DATE: 2002-03-27

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PRIOR FILING DATE: 2001-03-27

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PRIOR FILING DATE: 2001-05-15

NUMBER OF SEQ ID NOS: 22

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 3147

TYPE: DNA

ORGANISM: Homo Sapien

FEATURE:

NAME/KEY: CDS

LOCATION: (23) ... (2589)

OTHER INFORMATION: Nucleotide sequence encoding MTSpl

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Query Match 60.6%; Score 1883.2; DB 15; Length 3147;

Best Local Similarity 81.2%; Pred. No. 0;

Matches 2223; Conservative 0; Mismatches 508; Indels 5; Gaps 3;

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